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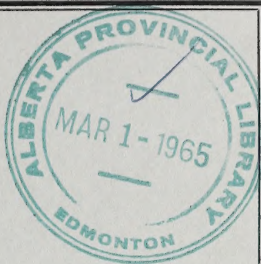
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FIFTEENTH ANNUAL REPORT

OF THE

Department of
Mines and Minerals

OF THE

PROVINCE OF ALBERTA

FOR THE

Fiscal Year Ended March 31st
1964

EDMONTON:

PRINTED BY L. S. WALL, Queen's Printer
1963



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1965

To the Honourable J. Percy Page,
Lieutenant Governor of the Province of Alberta.

Sir:


I have the honour to submit the Report of the Department
of Mines and Minerals for the fiscal year ended March 31st, 1964.

I have the honour to be, Sir,

Your obedient servant,

A. RUSSELL PATRICK,
Minister of Mines and Minerals.

Edmonton, November 9, 1964.



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CHIEF OFFICERS
DEPARTMENT OF MINES AND MINERALS
MARCH 31st, 1964

Hon. A. Russell Patrick.....	<i>Minister</i>
H. H. Somerville.....	<i>Deputy Minister</i>
L. B. Speelman.....	<i>Statistician</i>
W. E. Shillabeer.....	<i>Administrative Accountant and Personnel Officer</i>

MINERALS DIVISION

J. W. Patrick.....	<i>Director</i>
R. A. Seaton.....	<i>Assistant Director</i>
D. R. Jordan.....	<i>Supervisor of Revenue</i>
W. H. Roy.....	<i>Supervisor of Reservations, Permits and Licences</i>
D. F. Morrison.....	<i>Supervisor of Leases and Mining Recorder, Edmonton District</i>
D. C. MacMillan.....	<i>Mining Recorder, Calgary District</i>

MINERAL TAX DIVISION

J. A. Savage.....	<i>Superintendent</i>
I. M. Harrington.....	<i>Assistant Superintendent</i>
W. McGeachie.....	<i>Chief Assessor</i>

MINES DIVISION

J. A. Dutton.....	<i>Director</i>
J. D. B. Brown.....	<i>Assistant Director</i>

PIPE LINE DIVISION

A. L. Berry.....	<i>Superintendent</i>
G. W. B. Bullymore.....	<i>Assistant Superintendent</i>

TECHNICAL DIVISION

J. M. Novak.....	<i>Superintendent</i>
E. G. Staniforth.....	<i>Assistant Superintendent</i>
E. D. Barnard.....	<i>Supervisor of Records</i>

FIFTEENTH ANNUAL REPORT

of the

Department of Mines and Minerals

HONOURABLE A. RUSSELL PATRICK,
Minister of Mines and Minerals,
Edmonton, Alberta

Sir:

I have the honour to present the Annual Report of the Department of Mines and Minerals for the fiscal year ended March 31, 1964.

Crude oil production in Alberta reached a new high in 1963, with a total of 168,214,054 barrels. In addition, 17,470,570 barrels of pentanes plus and 3,204,319 barrels of condensate were produced. Pentanes plus are recovered when processing natural gas for market.

During the year a total of 673,703,046 Mcf of natural gas was marketed. The amount of 160,789,795 Mcf was consumed in Alberta, 228,144,759 Mcf was consumed in the balance of Canada, and the remainder of 284,768,492 Mcf was exported to the United States.

Another major product recovered in the processing of natural gas is sulphur. Alberta strengthened its position as one of the world's major sulphur producers with production totalling 1,227,667 long tons during the year. Gross value of sales of sulphur increased accordingly to \$11,516,478 during 1963 from \$8,308,209 the previous year.

Among the five gas processing plants completed during the year was the \$15.4 million Pacific Petroleum plant at Empress. The plant is the world's largest gas processing plant, using refrigeration absorption equipment to remove liquids from the gas stream being transferred from Alberta Gas Trunk to Trans Canada Pipe Lines. The plant went on stream in March, 1964; also completed was the \$6.5 million Imperial Oil gas processing plant at Judy Creek, the \$1.9 million British American cycling plant at Lookout Butte and two relatively small plants at Gilby totalling \$75,000 each. These additions brought to 69 the number of gas processing plants operating in the Province at the end of the year.

Reserves of crude oil and natural gas increased slightly with the development of the Snipe Lake field and the extensions of existing fields. At the end of 1963 reserves totalled 3.8 billion barrels crude oil, 33.3 trillion cubic feet natural gas, 872.8 million barrels natural gas liquids and sulphur 80.3 million long tons.

During the first part of 1964, what appeared to be a major deposit of crude oil was discovered near Lesser Slave Lake, north

of Edmonton. Early indications are that the discovery may be of major proportion.

During the year, construction of pipe lines in the Province totalled 2,180 miles. Total mileage of pipe line in the Province increased from 11,989.88 miles at March 31, 1963, to 13,732 miles at March 31, 1964.

Major projects included the completion of 120.7 miles of crude oil line from Red Earth to Snipe Lake. The project completed February 20, 1964, comprises part of the Peace River Pipe Line system and facilitates the movement of crude oil from the Red Earth area to storage at Edson or to the Edmonton refining area.

Also completed was the Northwest Utilities gas line from Judy Creek, 119 miles to Edmonton. Installed in an adjoining right-of-way was a condensate line from Judy Creek to Devon. A 71 mile pipe line from Hardisty to Lloydminster was completed in October, 1963. This recirculating pipe line blends condensate and asphaltic oil at Lloydminster and returns it to Hardisty.

Natural gas service was extended to nine communities in Alberta during 1963. These additions increased the total to 253 cities, towns, villages, hamlets and other communities now served by natural gas in Alberta.

For the period June 1, 1963, to March 31, 1964, since the establishment of The Surface Reclamation Act, a total of 464 Reclamation Certificates have been issued under Section 15 of the Act, 375 Reclamation Certificates issued under Section 16 of the Act and 110 Orders have been issued.

At the last Session of the Legislature an Act to amend The Right of Entry Arbitration Act was passed, making it possible for the members of The Right of Entry Arbitration Board to act and sign documents in the absence of the Chairman, with full jurisdiction. In addition, the Act was amended to facilitate the hearing of an application by one member of the Board in the event there was a vacancy, or that other members and the Chairman are not present.

Amendments were made to The Oil and Gas Conservation Act with regard to an increase in well licence fees and presentation of applications for well licences.

Advance arrangements were completed for Alberta's role as host of The Twenty-First Annual Conference of Ministers of Mines to be held at Banff Springs Hotel at Banff, September 6th to 9th, 1964.

A separate report is issued yearly by the Mines Division and may be obtained in the Natural Resources Building, Edmonton, Alberta.

Detailed reports of the other Divisions follow.

All of which is respectfully submitted.

H. H. Somerville,

November 4, 1964.

Deputy Minister.

MINERALS DIVISION

Report of the Director of Minerals

J. W. PATRICK

The fifteenth year of administration by the Department of Mines and Minerals was one of increased activity.

Footage drilled for petroleum and natural gas during 1963 was 9,806,791 feet. This was an increase of 700,112 feet over the previous year. The production of crude oil increased to 168,214,054 barrels being an increase of 3,089,087 barrels from 1962. The number of producing wells increased from 10,809 to 11,437 and were capable of maintaining an average daily rate of production of 1,001,272 barrels at December 31, 1963, under good production practice in accordance with sound engineering and economic principles. Because of inadequate markets the average daily oil produced during the year was only 460,860 barrels, an increase of two per cent from the previous year. There were 1,734 licences issued to drill for oil or gas during 1963 compared with 1,587 licences during the previous year.

Production of coal in Alberta in 1963 increased by 202,633 tons.

The production and value of Alberta's chief minerals for 1963 were crude oil, 168,214,054 barrels and condensate, 3,204,319 barrels valued at \$424,785,000; pentanes plus, 17,470,570 barrels valued at \$50,971,832; coal, 2,289,943 tons valued at \$9,866,962; natural gas marketed, 673,703,046 Mcf., valued at \$53,896,244; and salt, 46,357 tons valued at \$1,627,304.

Mineral rights, solid, liquid and gaseous, the property of the Crown in right of Alberta, are not sold, but are disposed of by lease, reservation, licence, permit or other agreement for limited periods of time. Revenue is obtained from fees, rentals, bonuses, royalties, sales of leases and other miscellaneous charges. During the fiscal year these sources provided a revenue of \$149,425,852.85 being an increase of \$27,966,368.32 from the previous year. Sales of leases and reservations in Crown Reserves were held on four occasions in the fiscal year and the revenue from this source increased by fourteen million dollars.

The Province is divided into two mining districts; the Edmonton district comprises that portion of the Province lying to the north of the north boundary of Township 42 and the balance of the Province lying to the south is contained in the Calgary district.

During the year 3,144 applications for mineral rights were filed at the office of the Mining Recorders in Edmonton and Calgary and at the office of the Department in Edmonton. Many inquiries were made as to the availability of mineral rights, mostly for petroleum and natural gas leases and reservations by personal application and by correspondence.

A tabulation of leases together with statements of business transacted follows.

MINERALS DIVISION LEASES

Type of Lease	Active at April 1, 1963	Issued	Reinstated	Divided	Cancelled	Renewed	Active at March 31, 1964
Petroleum and Natural Gas	29,777	2,547	100	172	3,460		29,136
Natural Gas	850	65	1	9	10		915
Petroleum	7	1					8
Coal	389	47			10	7	419
Road Allowance Coal	96	4			1	3	96
Quarrying	100	17			13		104
Salt	2						2
Bituminous Sands	79						79
Oil Sands	19						19
Iron	4	1					5
Sodium Sulphate	5						5
Miscellaneous	5						5
TOTAL	31,330	2,682	101	181	3,494	10	30,790

ACREAGE CONTAINED IN ABOVE LEASES

Type of Lease	Active at April 1, 1963	Issued	Reinstated	Cancelled	Renewed	Active at March 31, 1964
Petroleum and Natural Gas	27,366,509	3,203,352	57,428	3,631,391		26,995,898
Natural Gas	3,800,440	133,154	3,853	55,357		3,882,090
Petroleum	41,751	2,560				44,311
Coal	129,307	55,650		1,774	1,991	181,192
Quarrying	17,819	2,813		1,435		19,197
Salt	1,204					1,204
Bituminous Sands	2,516,126					2,516,126
Oil Sands	685,842					685,842
Iron	14,378	12,021				26,399
Sodium Sulphate	2,136					2,136
Miscellaneous	446					446
TOTAL	34,575,958	3,409,550	61,281	3,689,957	1,991	34,354,841

STATEMENT OF BUSINESS TRANSACTED 1963 - 1964

PETROLEUM AND NATURAL GAS

	Number	Acres
Leases issued	2,547	3,203,352
Leases cancelled and relinquished	3,460	3,631,391
Leases reinstated	100	57,428
Reservations issued	294	14,801,005
Reservations terminated	157	6,611,946
Crown reserve drilling reservations issued	93	825,616
Crown reserve drilling reservations terminated	77	705,596
Permits issued	121	1,727,249
Permits terminated	54	809,664
Natural gas licences issued	15	211,792
Natural gas licences terminated	15	338,189
Crown reserve natural gas licences issued	3	64,200
Crown reserve natural gas licences terminated	7	161,280
Natural gas leases issued	65	133,154
Natural gas leases cancelled and relinquished	10	55,357
Petroleum leases issued	1	2,560
Fees, rentals, penalties and bonuses collected		\$ 38,522,813.58
Royalties collected		56,747,130.34
Crown reserve sales		52,894,139.01
TOTAL		\$148,164,082.93

COAL

	Number	Acres
Leases issued	47	55,650
Leases cancelled and relinquished	10	1,774
Road Allowance Leases—		
Leases issued	4	
Leases cancelled and relinquished	1	
Fees and rental collected		\$ 89,254.08
Royalties collected		122,487.80
TOTAL		\$211,741.88

QUARRYING

	Number	Acres
Leases issued	17	2,813
Leases cancelled and relinquished	13	1,435
Fees and rental collected		\$ 101.00
Royalties collected		63,128.81
TOTAL		\$63,229.81

MISCELLANEOUS

	Number
Bituminous sands prospecting permits issued	4
Quartz—	
Claims recorded	218
Certificates of work issued	124
Transfers recorded	5
Certificates of grouping issued	1
Placer—	
Renewals issued	1
Mineral sales	4
Iron leases issued	1
Iron prospecting permits issued	4
Iron prospecting permits terminated	3
Well licences issued	1,924
Geophysical licences issued	117
Permits to operate geophysical equipment issued	8
Permits to operate geophysical equipment renewed	57
Fees, rentals, royalties and miscellaneous charges	\$986,798.23

PETROLEUM AND NATURAL GAS

Leases—During the year 2,547 petroleum and natural gas leases were granted covering 3,203,352 acres and at the close of the fiscal year a total of 29,136 leases were in existence comprising an area of 26,995,898 acres. The Mines and Minerals Act, 1962 which came into force on June 1, 1962 provided that each petroleum and natural gas lease granted following an application made under the Act would be for a term of ten years and at the end of the fiscal year there were 2,712 of these leases comprising 1,866,442 acres. Leases formerly granted were for a term of 21 years and any lease that follows a petroleum and natural gas reservation or Crown reserve drilling reservation that was granted before June 1, 1962 also has a term of 21 years. In the same way if a 21 year lease is transferred only as to a portion or is divided, the new lease for the transferred portion or divided portion also carries the 21 year term.

The revenue received from fees amounted to \$24,560.00. The revenue from lease rentals was \$24,555,692.11 and the revenue from bonuses accepted by the Mining Recorders at sales of petroleum and natural gas leases by tender amounted to \$1,956,308.80. The revenue from compensatory royalty on petroleum and natural gas leases amounted to \$105,026.48.

Disposal of Crown Reserves—Petroleum and natural gas rights comprised in Crown reserves may be disposed of by order of the Lieutenant Governor in Council and during the year 633

leases, nine reservations, 93 Crown reserve drilling reservations and three Crown reserve natural gas licences were purchased and particulars of these Crown reserve purchases are included in this report. Particulars of Crown reserve fractional area leases purchased, Crown reserve natural gas leases purchased and petroleum leases purchased are also included.

CROWN RESERVES PURCHASED IN CAROLINE AREA

Description	Offer Accepted From:	Cash Purchase Price
S.W. $\frac{1}{4}$ 34-34-6-5 (Except Natural Gas in the Basal Quartz Sandstone and Elkton Zones)	Altana Exploration Company	\$ 1,925.00
N.E. $\frac{1}{4}$ 35-34-6-5 (Except Natural Gas in the Basal Quartz Sandstone and Elkton Zones)	Altana Exploration Company	1,925.00
W. $\frac{1}{2}$ 1 & N.E. $\frac{1}{4}$ 2-35-6-5 (Except Natural Gas in the Basal Quartz Sandstone and Elkton Zones)	Altana Exploration Company	4,848.00
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 10-35-6-5 (Except Natural Gas in the Basal Quartz Sandstone and Elkton Zones)	Altana Exploration Company	8,688.00
N. $\frac{1}{2}$ 11-35-6-5 (Except Natural Gas in the Basal Quartz Sandstone and Elkton Zones)	Altana Exploration Company	3,872.00
Sec. 15-35-6-5 (Except Natural Gas in the Basal Quartz Sandstone and Elkton Zones)	Altana Exploration Company	6,464.00
		<hr/> \$ 27,722.00

CROWN RESERVES PURCHASED IN CARSON CREEK NORTH AREA

Description	Offer Accepted From:	Cash Purchase Price
N. $\frac{1}{2}$ 16-62-12-5	The Atlantic Refining Company	\$ 16,060.00
		<hr/> \$ 16,060.00

CROWN RESERVES PURCHASED IN DEER MOUNTAIN AREA

Description	Offer Accepted From:	Cash Purchase Price
E. $\frac{1}{2}$ 24-69-9-5	Imperial Oil Limited	\$ 89,115.15
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 36-69-9-5	Texaco Canada Limited	15,998.40
N. $\frac{1}{2}$ 19 & Sec. 30-69-8-5	Texaco Canada Limited	39,475.20
E. $\frac{1}{2}$ 25-69-9-5	Texaco Canada Limited	13,382.40
		<hr/> \$ 157,971.15

CROWN RESERVES PURCHASED IN GILBY AREA

Description	Offer Accepted From:	Cash Purchase Price
W. $\frac{1}{2}$ 30 & N. $\frac{1}{4}$ & S.W. $\frac{1}{4}$ 31-39-2-5 (Except Natural Gas in the Pekisko and Basal Blairmore Zones)	Kerr-McGee Oil Industries, Inc. and Tenneco Corporation	\$ 17,500.00
E. $\frac{1}{2}$ 12-40-4-5	DeKalb Petroleum Corporation	18,370.00
E. $\frac{1}{2}$ 22-40-4-5	DeKalb Petroleum Corporation	28,470.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 30-41-4-5	Ashland Oil & Refining Company	25,008.00
		<hr/> \$ 89,348.00

CROWN RESERVES PURCHASED IN HOMEGLLEN-RIMBEY AREA

Description		Offer Accepted From:	Cash Purchase Price
Sec.	20-42-1-5	Amerada Petroleum Corporation	\$ 9,666.00
Sec.	12-42-2-5	Amerada Petroleum Corporation	12,963.00
S.E. $\frac{1}{4}$	3-43-2-5	The California Standard Company	1,601.02
S. $\frac{1}{2}$	17-42-1-5	The Atlantic Refining Company	5,050.00
E. $\frac{1}{2}$	18-42-1-5	The Atlantic Refining Company	6,125.00
			<hr/>
			\$ 35,405.02

CROWN RESERVES PURCHASED IN JUDY CREEK AREA

Description		Offer Accepted From:	Cash Purchase Price
N. $\frac{1}{2}$	15-63-12-5	Imperial Oil Limited	\$ 225,626.26
N. $\frac{1}{2}$	10-63-12-5	Imperial Oil Limited	160,545.45
S. $\frac{1}{2}$	10-63-12-5	Mid-Western Industrial Gas Ltd.	48,200.00
S. $\frac{1}{2}$	22-63-12-5	Imperial Oil Limited	160,417.66
Sec.	15-64-10-5	Numac Oil and Gas Ltd.	7,100.00
N. $\frac{1}{2}$	22-63-12-5	Imperial Oil Limited	51,273.40
			<hr/>
			\$ 653,162.77

CROWN RESERVES PURCHASED IN JUDY CREEK SOUTH AREA

Description		Offer Accepted From:	Cash Purchase Price
N. $\frac{1}{2}$	4-63-11-5	Imperial Oil Limited	\$ 15,375.75
			<hr/>
			\$ 15,375.75

CROWN RESERVES PURCHASED IN KAYBOB AREA

Description		Offer Accepted From:	Cash Purchase Price
W. $\frac{1}{2}$	15-63-19-5	Pacific Petroleum Ltd., The California Standard Company, The British American Oil Company Limited and The Atlantic Refining Company	\$ 31,066.00
N. $\frac{1}{2}$	36-63-19-5	Scurry-Rainbow Oil Limited	6,505.00
Sec.	18-64-19-5	Canadian Kewanee Limited and The Calgary & Edmonton Corporation Limited	121,011.11
Sec.	19-64-19-5	Canadian Kewanee Limited and The Calgary & Edmonton Corporation Limited	207,011.11
Sec.	30-64-19-5	Canadian Kewanee Limited and The Calgary & Edmonton Corporation Limited	111,011.11
Sec.	1-65-19-5	The California Standard Company	77,777.77
S. $\frac{1}{2}$	12-65-19-5	The California Standard Company	7,777.77
			<hr/>
			\$ 562,159.87

CROWN RESERVES PURCHASED IN KAYBOB SOUTH AREA

Description		Offer Accepted From:	Cash Purchase Price
E. $\frac{1}{2}$ 34 & W. $\frac{1}{2}$ 35-61-20-5 (Except Natural Gas in Viking zone and Swan Hills zone)		Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	\$ 6,412.12
Sec. 2, E. $\frac{1}{2}$ 3 & W. $\frac{1}{2}$ 11-62-20-5 (Except Natural Gas in Viking zone, Cadomine zone & Swan Hills zone)		Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	221,111.11
Sec.	22-62-21-5	Pacific Petroleum Ltd.	22,969.60
Sec.	23-62-21-5	Champlin Oil & Refining Co.	64,000.17
			<hr/>
			\$ 314,493.00

CROWN RESERVES PURCHASED IN LEAFLAND AREA

Description		Offer Accepted From:	Cash Purchase Price
Sec.	21-39-5-5	Denison Mines Limited	\$ 92,009.91
N.W. $\frac{1}{4}$	14-40-5-5	Swain Oils Ltd.	4,400.00
E. $\frac{1}{2}$	22-40-5-5	Swain Oils Ltd.	12,500.00
			<hr/>
			\$ 108,909.91

CROWN RESERVES PURCHASED IN PEMBINA AREA

Description	Offer Accepted From:	Cash Purchase Price
N. $\frac{1}{2}$ 9-48-2-5	Supertest Petroleum Corporation Limited	\$ 11,265.00
S. $\frac{1}{2}$ 16-48-2-5	Kerr-McGee Oil Industries, Inc.	11,232.00
S. $\frac{1}{2}$ 17-48-2-5	Supertest Petroleum Corporation Limited	24,265.00
N. $\frac{1}{2}$ 32-48-5-5 & S. $\frac{1}{2}$ 5-49-5-5	Canadian Homestead Oils Limited	151,040.00
E. $\frac{1}{2}$ 9 & W. $\frac{1}{2}$ 10-50-9-5	Numac Oil & Gas Ltd.	8,000.00
S. $\frac{1}{2}$ 15-50-9-5	Numac Oil & Gas Ltd.	33,500.00
W. $\frac{1}{2}$ 2-47-10-5	Glendale Investment Corporation Ltd.	3,500.00
Sec. 11-47-10-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	36,660.00
N. $\frac{1}{2}$ 32 & N. $\frac{1}{2}$ 33-47-10-5	Wintershall Oil of Canada Ltd.	61,509.00
N.W. $\frac{1}{4}$ 23-50-11-5	Glendale Investment Corporation Ltd.	2,500.00
S. $\frac{1}{2}$ 27-50-11-5	Glendale Investment Corporation Ltd.	3,500.00
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 29-47-2-5	Kerr-McGee Oil Industries, Inc.	6,720.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 31-47-3-5	Kerr-McGee Oil Industries, Inc.	8,160.00
N. $\frac{1}{2}$ 32-47-3-5	Altair Oil & Gas Co. and Frontier Oil & Gas Ltd.	19,560.00
N. $\frac{1}{2}$ 33-47-3-5	Altair Oil & Gas Co. and Frontier Oil & Gas Ltd.	19,560.00
N.W. $\frac{1}{4}$ 22-48-3-5	Western Decalta Petroleum Limited and Consolidated East Crest Oil Company Limited	4,239.00
S. $\frac{1}{2}$ 28 & S.E. $\frac{1}{4}$ 29-48-3-5	Joe Phillips Limited	28,924.80
N.W. $\frac{1}{4}$ 29 & S.W. $\frac{1}{4}$ 32-48-3-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	26,010.00
Sec. 34-47-6-5	Mid-Western Industrial Gas Ltd.	35,600.00
S.W. $\frac{1}{4}$ 2-48-6-5	Mid-Western Industrial Gas Ltd.	16,910.00
S. $\frac{1}{2}$ 29-48-3-5	Whitehall Canadian Oils Ltd., Numac Oil and Gas Ltd. and Clarepine Oil and Gas Ltd.	26,110.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 30-48-8-5	Whitehall Canadian Oils Ltd., Numac Oil and Gas Ltd. and Clarepine Oil and Gas Ltd.	63,330.00
Sec. 31-48-8-5	Svain Oils Ltd.	86,000.00
S. $\frac{1}{2}$ 32-48-8-5	Svain Oils Ltd.	54,000.00
N.E. $\frac{1}{4}$ 32-49-11-5	Ashland Oil & Refining Company	36,101.00
E. $\frac{1}{2}$ 5-50-11-5	Ashland Oil & Refining Company	81,101.00
S. $\frac{1}{2}$ 8-50-11-5	Ashland Oil & Refining Company	56,101.00
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 25-50-11-5	Ashland Oil & Refining Company	29,101.00
S. $\frac{1}{2}$ 26-50-11-5	Ashland Oil & Refining Company	18,601.00
Sec. 1-50-12-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	26,050.00
W. $\frac{1}{2}$ 28-47-2-5	Kerr-McGee Oil Industries, Inc.	16,640.00
E. $\frac{1}{2}$ 11-51-7-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	8,200.00
(Except Natural Gas in Glauconitic Sandstone zone)	Carlton Management Services Ltd.	17,920.00
N. $\frac{1}{2}$ 17-50-10-5		\$ 1,031,909.80

CROWN RESERVES PURCHASED IN SNIPE LAKE AREA

Description	Offer Accepted From:	Cash Purchase Price
W. $\frac{1}{2}$ 22-70-18-5	Imperial Oil Limited, The California Standard Company and Standard Oil Company of British Columbia Limited	\$ 202,350.00
E. $\frac{1}{2}$ 24-70-18-5	Luscar Coals Limited and Corvair Oil Ltd.	100,011.00
N. $\frac{1}{2}$ 35-70-18-5	Imperial Oil Limited, The California Standard Company and Standard Oil Company of British Columbia Limited	152,250.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 4-71-18-5	Numac Oil & Gas Ltd.	251,000.00
W. $\frac{1}{2}$ 9-71-18-5	The Atlantic Refining Company	310,299.00
N. $\frac{1}{2}$ 15-71-18-5	Texaco Exploration Company	49,617.00
N.E. $\frac{1}{4}$ 16-71-18-5	Canadian Kewanee Limited	185,111.11
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 28-71-18-5	The Atlantic Refining Company	25,299.00
S.E. $\frac{1}{4}$ 18-71-18-5	Imperial Oil Limited	8,088.88
		\$ 1,284,025.99

CROWN RESERVES PURCHASED IN STURGEON LAKE SOUTH AREA

Description	Offer Accepted From:	Cash Purchase Price
E. $\frac{1}{2}$ 22-68-22-5	Western Decalta Petroleum Limited, Westburne Oil Development Limited, Dome Petroleum Limited and Consolidated East Crest Oil Company Limited	\$ 54,239.00
W. $\frac{1}{2}$ 26-68-22-5	Western Decalta Petroleum Limited, The Petrol Oil & Gas Company, Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	32,900.00
		\$ 87,139.00

CROWN RESERVES PURCHASED IN SWAN HILLS AREA

Description	Offer Accepted From:	Cash Purchase Price
S.W. $\frac{1}{4}$ 31-64-10-5	Imperial Oil Limited	\$ 241,223.33
N. $\frac{1}{2}$ 24-66-10-5	Pan American Petroleum Corporation and The British American Oil Company Limited	64,064.00
S. $\frac{1}{2}$ 24-66-10-5	Pan American Petroleum Corporation and The British American Oil Company Limited	64,064.00
Sec. 33-66-9-5	Denison Mines Limited	187,009.91
Sec. 19-68-9-5	Imperial Oil Limited	192,777.78
Sec. 21-66-9-5	Numac Oil & Gas Ltd.	37,000.00
Sec. 28-66-9-5	Ashland Oil & Refining Company	211,101.00
W. $\frac{1}{2}$ 4-67-9-5	Numac Oil & Gas Ltd.	127,000.00
W. $\frac{1}{2}$ 9-67-9-5	Socony Mobil Oil of Canada, Ltd. and The Atlantic Refining Company	96,320.00
Sec. 16-67-9-5	Skelly Oil Company, Monsanto Oils Ltd. and Monsanto Chemical Company	200,537.60
E. $\frac{1}{2}$ 23-65-10-5	Pan American Petroleum Corporation and The British American Oil Company Limited	112,320.00
W. $\frac{1}{2}$ 24-65-10-5	Pan American Petroleum Corporation and The British American Oil Company Limited	100,160.00
W. $\frac{1}{2}$ 25-65-10-5	DeKalb Agricultural Association, Inc.	134,670.00
E. $\frac{1}{2}$ 26-65-10-5	DeKalb Agricultural Association, Inc.	124,670.00
N. $\frac{1}{2}$ 34-65-10-5	Imperial Oil Limited	48,475.75
N. $\frac{1}{2}$ 4-66-10-5	Imperial Oil Limited	64,567.45
E. $\frac{1}{2}$ 12-66-10-5	Western Decalta Petroleum Limited and Midcon Oil & Gas Limited	71,985.00
W. $\frac{1}{2}$ 12-66-10-5	Pan American Petroleum Corporation and The British American Oil Company Limited	10,560.00
E. $\frac{1}{2}$ 4-67-9-5	Skelly Oil Company, Monsanto Oils Ltd. and Monsanto Chemical Company	114,816.00
E. $\frac{1}{2}$ 9-67-9-5	Skelly Oil Company, Monsanto Oils Ltd. and Monsanto Chemical Company	134,016.00
Sec. 21-67-9-5	Skelly Oil Company, Monsanto Oils Ltd. and Monsanto Chemical Company	410,880.00
Sec. 28-67-9-5	Pan American Petroleum Corporation	340,000.00
		<hr/> \$ 3,088,217.82

CROWN RESERVES PURCHASED IN WILLESSEN GREEN AREA

Description	Offer Accepted From:	Cash Purchase Price
S. $\frac{1}{2}$ 10-41-6-5	Transalta Minerals Ltd.	\$ 3,600.00
Sec. 27-42-7-5	Ashland Oil & Refining Company	75,289.60
Sec. 7-42-5-5	Hamilton Brothers Canadian Gas Company Ltd.	9,708.80
		<hr/> \$ 88,598.40

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

Description	Offer Accepted From:	Cash Purchase Price
N.E. $\frac{1}{4}$ 26-32-2-5 (Except Natural Gas in the Wabamun Zone)	Triad Oil Co. Ltd.	\$ 6,166.00
N.W. $\frac{1}{4}$ 4-34-2-5	Glendale Investment Corporation Ltd.	2,000.00
N. $\frac{1}{2}$ 6-34-2-5	The Atlantic Refining Company	16,189.00
Sec. 20-37-2-5	Imperial Oil Enterprises Ltd.	22,525.25
W. $\frac{1}{2}$ 28 & E. $\frac{1}{2}$ 29-37-2-5	Imperial Oil Enterprises Ltd.	22,565.65
S. $\frac{1}{2}$ 28 & S.E. $\frac{1}{4}$ 29-34-3-5	Champlin Oil & Refining Co.	13,742.40
E. $\frac{1}{2}$ 12-39-3-5	Devon-Palmer Oils Ltd. (No Personal Liability) and Prairie Oil Royalties Company, Ltd.	11,843.78
Sec. 35-37-4-5 (Except Natural Gas in the Basal Blairmore and Elkton Zones)	Apache Corporation and Brinkerhoff Drilling Co. Ltd.	208,319.00
N. $\frac{1}{2}$ 1 & S. $\frac{1}{2}$ 12-38-4-5 (Except Natural Gas in the Basal Blairmore and Elkton Zones)	The British American Oil Company Limited and Brinkerhoff Drilling Co. Ltd.	209,926.44
Sec. 2-38-4-5 (Except Natural Gas in the Basal Blairmore and Elkton Zones)	Apache Corporation, The British American Oil Company Limited and Brinkerhoff Drilling Co. Ltd.	112,640.00
N.W. $\frac{1}{4}$ 4-41-4-5	Apache Corporation	5,120.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Sec. 34-30-5-5	Marwood Oils Ltd.	\$ 22,496.00
N. $\frac{1}{2}$ 16 & S. $\frac{1}{2}$ 21-35-6-5		
(Except Natural Gas in the Viking Zone)	Altana Exploration Company	9,664.00
N. $\frac{1}{2}$ 17 & S. $\frac{1}{2}$ 20-35-6-5	Altana Exploration Company	9,664.00
W. $\frac{1}{2}$ 27 & W. $\frac{1}{2}$ 34-43-7-5	Great Plains Development Company of Canada, Ltd.	7,510.00
Sec. 28 & Sec. 33-43-7-5	Great Plains Development Company of Canada, Ltd.	20,550.00
E. $\frac{1}{2}$ 20-64-8-5	Pan American Petroleum Corporation	13,085.00
Sec. 15-68-8-5	The Atlantic Refining Company	8,640.00
Sec. 16-68-8-5	Whitehall Canadian Oils Ltd.	16,350.00
Sec. 17-68-8-5	Champlin Oil & Refining Co.	81,568.00
Sec. 19-68-8-5	Pan American Petroleum Corporation	102,486.00
Sec. 33-67-9-5	Socony Mobil Oil of Canada, Ltd. and The Atlantic Refining Company	224,444.00
E. $\frac{1}{2}$ 4-68-9-5	Densom Mines Limited and Numac Oil & Gas Ltd.	143,003.00
N. $\frac{1}{2}$ 4-68-9-5	Socony Mobil Oil of Canada, Ltd. and The Atlantic Refining Company	162,666.00
E. $\frac{1}{2}$ 9-68-9-5	Socony Mobil Oil of Canada, Ltd. and The Atlantic Refining Company	120,211.00
W. $\frac{1}{2}$ 9-68-9-5	Whitehall Canadian Oils Ltd., Northern Natural Gas Producing Company and Westburne Oil Development Limited	126,360.00
N. $\frac{1}{2}$ 15-69-9-5	Texaco Canada Limited	65,000.00
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 22-69-9-5	Pan American Petroleum Corporation	132,132.00
E. $\frac{1}{2}$ 27-69-9-5	Texaco Canada Limited	130,000.00
W. $\frac{1}{2}$ 32-69-9-5	Murphy Oil Company Ltd.	22,041.60
E. $\frac{1}{2}$ 34-69-9-5	Western Decalta Petroleum Limited, Westburne Oil Development Limited and Western Minerals Ltd.	75,750.00
W. $\frac{1}{2}$ 2-70-9-5	Pan American Petroleum Corporation	3,223.00
E. $\frac{1}{2}$ 3-70-9-5	Western Decalta Petroleum Limited, Westburne Oil Development Limited and Western Minerals Ltd.	15,750.00
N.E. $\frac{1}{4}$ 8 & S. $\frac{1}{2}$ 17-70-9-5	Western Decalta Petroleum Limited, Westburne Oil Development Limited and Western Minerals Ltd.	15,750.00
Sec. 15-42-10-5	Union Oil Company of Canada Limited	16,100.00
Sec. 16-42-10-5	Union Oil Company of Canada Limited	16,100.00
Sec. 7-71-10-5	The California Standard Company	32,068.28
Sec. 4-87-10-5	DeKalb Petroleum Corporation	38,350.00
Sec. 9-87-10-5	DeKalb Petroleum Corporation	38,350.00
S. $\frac{1}{2}$ 12-71-11-5	The California Standard Company	16,034.86
Sec. 23-50-12-5	Whitehall Canadian Oils Ltd. and Westburne Oil Development Limited	10,260.00
Sec. 24-50-12-5	Texaco Exploration Company	9,611.17
Sec. 5-52-12-5	Pan American Petroleum Corporation	22,444.00
Sec. 6-52-12-5	Imperial Oil Enterprises Ltd.	32,265.65
Sec. 7-52-12-5	Pan American Petroleum Corporation	44,888.00
N. $\frac{1}{2}$ 17-62-12-5	The Atlantic Refining Company	8,002.00
Sec. 15-64-12-5	Sinclair Canada Oil Company	64,285.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 14 & S. $\frac{1}{2}$ 23-57-13-5	Uno-Tex Petroleum Corporation	88,920.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 17-73-13-5	Canada-Cities Service Petroleum Corporation	13,456.00
Sec. 6-54-14-5	Socony Mobil Oil of Canada, Ltd., Home Oil Company Limited, Kern County Land Company and Alminex Limited	67,200.00
Sec. 4-62-14-5	The Atlantic Refining Company	11,736.80
N. $\frac{1}{2}$ 12-62-14-5	The Atlantic Refining Company	5,868.40
S. $\frac{1}{2}$ 13-62-14-5	The Atlantic Refining Company	5,868.40
Sec. 29-65-14-5	Hamilton Brothers Canadian Gas Company, Canadian Superior Oil Ltd. and The Calgary and Edmonton Corporation Limited	42,419.20
Sec. 5-66-14-5	Hamilton Brothers Canadian Gas Company, Canadian Superior Oil Ltd. and The Calgary and Edmonton Corporation Limited	35,392.00
Sec. 18-69-14-5 & E. $\frac{1}{2}$ 13-69-15-5	The Calgary & Edmonton Corporation Limited, Canadian Export Gas & Oil Ltd. and Canadian Superior Oil Ltd.	44,283.23
E. $\frac{1}{2}$ 23-72-14-5	The Calgary and Edmonton Corporation Limited	7,483.23
N. $\frac{1}{2}$ 11 & S. $\frac{1}{2}$ 14-73-14-5	Canada-Cities Service Petroleum Corporation	23,456.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 30-73-14-5	Canada-Cities Service Petroleum Corporation	13,456.00
Sec. 23-75-14-5	The Calgary & Edmonton Corporation Limited	14,843.23
Sec. 16-76-14-5	The California Standard Company	11,436.18
S. $\frac{1}{2}$ 21-53-15-5	Socony Mobil Oil of Canada Ltd., Home Oil Company Limited, Kern County Land Company and Alminex Limited	83,200.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
W. $\frac{1}{2}$ 6 & W. $\frac{1}{2}$ 7-57-15-5	Union Oil Company of Canada Limited	\$ 32,100.00
N. $\frac{1}{2}$ 9-62-15-5	Hamilton Brothers Canadian Gas Company Ltd. and Canadian Superior Oil Ltd.	8,691.20
Sec. 18-62-15-5	The Atlantic Refining Company	16,000.00
Sec. 17-65-15-5	Pan American Petroleum Corporation	32,649.00
Sec. 31-65-15-5	Pan American Petroleum Corporation	32,651.00
Sec. 36-65-15-5	Hamilton Brothers Canadian Gas Company Ltd., Canadian Superior Oil Ltd. and The Calgary & Edmonton Corporation Limited	35,392.00
E. $\frac{1}{2}$ 4-66-15-5	Pan American Petroleum Corporation	13,134.00
Sec. 9-67-15-5	Pan American Petroleum Corporation	35,888.00
E. $\frac{1}{2}$ 9 & Sec. 10-68-15-5	Pan American Petroleum Corporation	66,292.00
Sec. 15-68-15-5	The Calgary & Edmonton Corporation Limited, Canadian Export Gas & Oil Ltd. and Canadian Superior Oil Ltd.	29,563.23
N.W. $\frac{1}{4}$ 3, N.E. $\frac{1}{4}$ 4, S.E. $\frac{1}{4}$ 9, & S.W. $\frac{1}{4}$ 10-70-15-5	Texaco Exploration Company	24,001.17
Sec. 16-71-15-5	The Calgary & Edmonton Corporation Limited, Canadian Export Gas & Oil Ltd. and Canadian Superior Oil Ltd.	29,563.23
Sec. 6-52-16-5	Tenneco Corporation, Sun Oil Company, Monsanto Oils Ltd. and Monsanto Chemical Company	39,190.00
N. $\frac{1}{2}$ 9 & S.E. $\frac{1}{4}$ 16-56-16-5	Hudson's Bay Oil and Gas Company Limited	14,416.96
E. $\frac{1}{2}$ 1 & E. $\frac{1}{2}$ 12-57-16-5	Union Oil Company of Canada Limited	32,100.00
Sec. 21-62-16-5	Uno-Tex Petroleum Corporation, Monsanto Oils Ltd. and Monsanto Chemical Company	31,360.00
Sec. 2-64-16-5	Pan American Petroleum Corporation	26,257.00
Sec. 15-64-16-5	Pan American Petroleum Corporation	26,257.00
Sec. 19-64-16-5	Pan American Petroleum Corporation	22,432.00
Sec. 11-67-16-5	Devon-Palmer Oils Ltd. (No Personal Liability) and Prairie Oil Royalties Company, Ltd.	24,821.89
Sec. 31-67-16-5	Canadian Kewanee Limited	35,011.11
Sec. 21-68-16-5	Devon-Palmer Oils Ltd. (No Personal Liability) and Prairie Oil Royalties Company, Ltd.	28,921.89
Sec. 22-68-16-5	Pan American Petroleum Corporation	33,313.00
S. $\frac{1}{2}$ 29-53-17-5	Champlin Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	8,739.20
Sec. 20-69-17-5	Canadian Kewanee Limited and The Calgary & Edmonton Corporation Limited	94,011.11
Sec. 31-69-17-5	Canadian Kewanee Limited and The Calgary & Edmonton Corporation Limited	153,011.11
W. $\frac{1}{2}$ 18-17-17-5	The California Standard Company, Standard Oil Company of British Columbia Limited and Imperial Oil Limited	30,666.44
N. $\frac{1}{2}$ 21 & S. $\frac{1}{2}$ 28-55-18-5	Triad Oil Co. Ltd., Uno-Tex Petroleum Corporation, Devon-Palmer Oils Ltd. (No Personal Liability) and Prairie Oil Royalties Company, Ltd.	90,176.32
N. $\frac{1}{2}$ 22 & S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 27-55-18-5	Triad Oil Co. Ltd., Uno-Tex Petroleum Corporation, Devon-Palmer Oils Ltd. (No Personal Liability) and Prairie Oil Royalties Company, Ltd.	75,176.31
N. $\frac{1}{2}$ 11 & S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 14-66-18-5	The Calgary & Edmonton Corporation Limited, Canadian Export Gas & Oil Ltd. and Canadian Superior Oil Ltd.	54,523.23
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 13-70-18-5	The California Standard Company, Standard Oil Company of British Columbia Limited and Imperial Oil Limited	277,888.88
N. $\frac{1}{2}$ 14-70-18-5	Canadian Kewanee Limited	250,011.11
Sec. 5-71-18-5	The Atlantic Refining Company	22,460.00
Sec. 6-59-19-5	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited and Pan American Petroleum Corporation	16,352.00
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 24-69-19-5	Pan American Petroleum Corporation	16,843.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 8-70-19-5	Pan American Petroleum Corporation	36,505.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 16-70-19-5	Pan American Petroleum Corporation	28,826.00
W. $\frac{1}{2}$ 9-58-20-5	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited and Pan American Petroleum Corporation	16,195.20
N. $\frac{1}{2}$ 17 & S. $\frac{1}{2}$ 20-58-20-5	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited and Pan American Petroleum Corporation	51,609.60
N. $\frac{1}{2}$ 18 & S. $\frac{1}{2}$ 19-58-20-5	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited and Pan American Petroleum Corporation	32,390.40
Sec. 36-58-20-5	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited and Pan American Petroleum Corporation	65,350.40
S. $\frac{1}{2}$ 16 & S. $\frac{1}{2}$ 17-62-20-5	Champlin Oil & Refining Co.	130,400.88

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 18-62-20-5	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	\$ 75,309.85
W. $\frac{1}{2}$ 19 & W. $\frac{1}{2}$ 30-62-20-5	Whitehall Canadian Oils Ltd., Northern Natural Gas Producing Company, Westburne Oil Development Limited and Supertest Petroleum Corporation, Limited	216,250.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 31-62-20-5	The California Standard Company	103,333.33
N. $\frac{1}{2}$ 32 & N. $\frac{1}{2}$ 33-62-20-5	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	101,111.11
Sec. 31-64-20-5	Marathon Oil Company	42,304.00
Sec. 24-64-21-5	Marathon Oil Company	42,304.00
Sec. 25-64-21-5	Murphy Oil Company Ltd. and Security Freehold Petroleums Limited	28,441.60
Sec. 36-65-21-5	Murphy Oil Company Ltd. and Security Freehold Petroleums Limited	21,331.20
Sec. 13-66-21-5	Skelly Oil Company	17,484.80
Sec. 20-66-21-5	Sinclair Canada Oil Company	15,560.00
Sec. 8-67-21-5	The Atlantic Refining Company	9,272.80
Sec. 13-72-21-5	The Atlantic Refining Company	19,298.00
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 1-73-21-5	The Atlantic Refining Company	16,975.00
Sec. 5-73-21-5	The Atlantic Refining Company	22,625.00
Sec. 25-64-22-5	The Atlantic Refining Company	11,026.40
N.E. $\frac{1}{4}$ 15-68-22-5	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	50,216.84
Sec. 25-72-22-5	The Atlantic Refining Company	19,298.00
Sec. 16-65-23-5	The Atlantic Refining Company	11,026.40
N. $\frac{1}{2}$ 17-65-23-5	The Atlantic Refining Company	8,095.00
Sec. 19-65-23-5	Western Land Services Ltd.	70,825.00
E. $\frac{1}{2}$ 11 & W. $\frac{1}{2}$ 12-63-2-6	The Atlantic Refining Company	44,985.00
Sec. 17-63-2-6	The Atlantic Refining Company	64,444.00
N. $\frac{1}{2}$ 33 & N. $\frac{1}{2}$ 34-63-2-6	The Atlantic Refining Company	35,270.00
Sec. 8-63-4-6	French Petroleum Company of Canada Ltd.	8,556.80
Sec. 29-27-1-5	Canadian Superior Oil Ltd.	9,636.00
Sec. 12-35-1-5	The Calgary & Edmonton Corporation Limited	7,157.77
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 24-35-1-5	J. M. Huber Corporation	8,716.80
N. $\frac{1}{2}$ 36-35-1-5	J. M. Huber Corporation	6,803.20
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 32-37-1-5	Tenneco Oil Company	25,043.00
Sec. 10-43-1-5	Amerada Petroleum Corporation	6,511.00
N.W. $\frac{1}{4}$ 22-33-2-5	J. M. Huber Corporation	2,425.60
N. $\frac{1}{2}$ 34-33-2-5	DeKalb Agricultural Association, Inc.	13,670.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 36-33-2-5	DeKalb Agricultural Association, Inc.	29,510.00
S. $\frac{1}{2}$ 4-34-2-5	DeKalb Agricultural Association, Inc.	8,170.00
N. $\frac{1}{2}$ 6-34-2-5	The Atlantic Refining Company	19,267.00
N.W. $\frac{1}{4}$ 18-34-2-5	Canada-Cities Service Petroleum Corporation	5,775.00
S.E. $\frac{1}{4}$ 19-34-2-5	Canada-Cities Service Petroleum Corporation	6,123.00
N.E. $\frac{1}{4}$ 8-37-2-5	Imperial Oil Enterprises Ltd.	6,533.33
N. $\frac{1}{2}$ 34-37-2-5	Canadian Superior Oil Ltd.	18,427.00
Sec. 29-42-2-5	J. M. Huber Corporation	9,708.80
W. $\frac{1}{2}$ 30-33-3-5	DeKalb Agricultural Association, Inc.	6,070.00
Sec. 4-36-3-5	Richfield Oil Corporation	32,000.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 10-36-3-5	Richfield Oil Corporation	24,000.00
Sec. 36-33-4-5	DeKalb Agricultural Association, Inc.	12,150.00
Sec. 2-34-4-5	DeKalb Agricultural Association, Inc.	12,150.00
S. $\frac{1}{2}$ 32-38-4-5	Apache Corporation	51,840.00
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 34-42-4-5	The Calgary & Edmonton Corporation Limited	15,957.77
S. $\frac{1}{2}$ 2-43-4-5	The Calgary & Edmonton Corporation Limited	14,837.77
Sec. 12-43-4-5	The Calgary & Edmonton Corporation Limited	29,557.77
Sec. 13-43-4-5	The Calgary & Edmonton Corporation Limited	21,237.77
Sec. 32-30-5-5	Shell Canada Limited	40,080.80
Sec. 4-31-5-5	Shell Canada Limited	40,080.80
Sec. 6-31-5-5	Shell Canada Limited	27,498.80
E. $\frac{1}{2}$ 30 & S. $\frac{1}{2}$ 31-34-5-5	Altana Exploration Company	7,840.00
E. $\frac{1}{2}$ 36-38-5-5	Apache Corporation	23,040.00
E. $\frac{1}{2}$ 12-39-5-5	Murphy Oil Company Ltd.	9,241.60
E. $\frac{1}{2}$ 16-39-5-5	Murphy Oil Company Ltd.	26,201.60
Sec. 20-41-5-5	J. M. Huber Corporation	19,193.60
Sec. 35-49-5-5	Imperial Oil Enterprises Ltd. and Canadian Superior Oil Ltd.	16,127.75
Sec. 36-49-5-5	Imperial Oil Enterprises Ltd. and Canadian Superior Oil Ltd.	16,127.75
Sec. 22-58-5-5	The Calgary & Edmonton Corporation Limited	7,123.20
W. $\frac{1}{2}$ 4, E. $\frac{1}{2}$ 5 & S.W. $\frac{1}{4}$ 9-40-6-5	Union Oil Company of Canada Limited	64,400.00
Sec. 35-48-6-5	Kerr-McGee Oil Industries, Inc.	10,880.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
S. $\frac{1}{2}$ 3-37-7-5	Triad Oil Co. Ltd., Devon-Palmer Oils Ltd. (No Personal Liability), Uno-Tex Petroleum Corporation, Monsanto Oils Ltd. and Monsanto Chemical Company	\$ 28,822.40
W. $\frac{1}{2}$'s 4 & 9-37-7-5	Triad Oil Co. Ltd., Devon-Palmer Oils Ltd. (No Personal Liability), Uno-Tex Petroleum Corporation, Monsanto Oils Ltd. and Monsanto Chemical Company	70,444.80
E. $\frac{1}{2}$ 16-37-7-5	Socony Mobil Oil of Canada, Ltd.	56,700.81
Sec. 7-88-7-5	Union Oil Company of Canada Limited	48,500.00
Sec. 8-88-7-5	Union Oil Company of Canada Limited	80,500.00
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 32-57-8-5	Texaco Exploration Company	17,117.87
Sec. 23-87-8-5	Whitehall Canadian Oils Ltd., Northern Natural Gas Producing Company and Westburne Oil Development Limited	12,820.00
Sec. 24-87-8-5	Numac Oil & Gas Ltd.	33,000.00
Sec. 8-88-8-5	Uno-Tex Petroleum Corporation	25,150.00
N. $\frac{1}{2}$ 23, Sec. 26 & 35-88-8-5	Numac Oil & Gas Ltd.	41,000.00
E. $\frac{1}{2}$ 15-36-9-5	The California Standard Company	6,440.00
N. $\frac{1}{2}$ 21-36-9-5	The California Standard Company	8,080.00
S. $\frac{1}{2}$ 28-36-9-5	The California Standard Company	9,660.00
Sec. 29-36-9-5	The California Standard Company	19,220.00
N. $\frac{1}{2}$ 6-37-9-5	The California Standard Company	17,660.00
Sec. 8-38-10-5	Canadian Superior Oil Ltd., The Calgary & Edmonton Corporation Limited and Skelly Oil Company	43,556.00
Sec. 9-38-10-5	The California Standard Company	48,100.00
Sec. 1-63-10-5	Sun Oil Company	21,120.00
Sec. 22-78-10-5	The Atlantic Refining Company	16,378.00
Sec. 11-43-11-5	Union Oil Company of Canada Limited	19,500.00
Sec. 13-43-11-5	Union Oil Company of Canada Limited	19,500.00
Sec. 2-52-11-5	Imperial Oil Enterprises Ltd.	16,525.25
Sec. 3-52-11-5	Imperial Oil Enterprises Ltd.	26,521.71
Sec. 4-52-11-5	Pan American Petroleum Corporation	45,770.00
Sec. 36-77-11-5	The Atlantic Refining Company	22,478.00
Sec. 8-52-12-5	Pan American Petroleum Corporation	210,240.00
Sec. 16-52-12-5	Pan American Petroleum Corporation	96,160.00
Sec. 17-52-12-5	Pan American Petroleum Corporation	136,480.00
Sec. 20-65-12-5	Apache Corporation	88,320.00
W. $\frac{1}{2}$ 30-72-12-5 & 25-72-13-5	Pan American Petroleum Corporation	16,160.00
E. $\frac{1}{2}$ 25-72-13-5	Pan American Petroleum Corporation	
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 1 & 2-57-13-5	The Calgary & Edmonton Corporation Limited, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	57,717.77
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 24-57-13-5	Socony Mobil Oil of Canada, Ltd. and Scurry-Rainbow Oil Limited	57,600.00
E. $\frac{1}{2}$ 25-57-13-5	The Atlantic Refining Company	19,303.00
Sec. 6-62-13-5	Transalta Minerals Ltd.	10,000.00
W. $\frac{1}{2}$ 11-63-13-5	Supertest Petroleum Corporation, Limited	5,387.00
Sec. 23-63-13-5	Prairie Oil Royalties Company, Ltd.	14,127.89
Sec. 29-66-13-5	Pan American Petroleum Corporation	84,160.00
W. $\frac{1}{2}$ 30-71-13-5 & 25-71-14-5	Pan American Petroleum Corporation	27,040.00
E. $\frac{1}{2}$ 25-71-14-5	Pan American Petroleum Corporation	
N. $\frac{1}{2}$ 20 & S. $\frac{1}{2}$ 29-72-13-5	Pan American Petroleum Corporation	6,560.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 31-73-13-5	Canada-Cities Service Petroleum Corporation	20,200.00
Sec. 6-76-13-5	The Atlantic Refining Company	15,136.00
Sec. 19-77-13-5	The Atlantic Refining Company	15,136.00
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 34-46-14-5	The Calgary & Edmonton Corporation Limited	7,797.77
Sec. 19-47-14-5	The Calgary & Edmonton Corporation Limited	10,357.77
Sec. 33-67-14-5	Pan American Petroleum Corporation	28,960.00
Sec. 3-69-14-5	Pan American Petroleum Corporation	22,560.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 31-69-14-5	Pan American Petroleum Corporation	26,560.00
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 34-69-14-5	Pan American Petroleum Corporation	16,920.00
W. $\frac{1}{2}$ 26 & E. $\frac{1}{2}$ 27-70-14-5	Pan American Petroleum Corporation	35,360.00
Sec. 6-71-14-5	Pan American Petroleum Corporation	35,360.00
W. $\frac{1}{2}$ 18-73-14-5	Canada-Cities Service Petroleum Corporation	8,338.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 27-73-14-5	Canada-Cities Service Petroleum Corporation	20,200.00
Sec. 9-77-14-5	The Atlantic Refining Company	15,136.00
Sec. 13-46-15-5	The Atlantic Refining Company	12,972.00
Sec. 12-47-15-5	The Atlantic Refining Company	12,972.00
Sec. 23-48-15-5	Uno-Tex Petroleum Corporation	44,140.00
Sec. 7-49-15-5	Uno-Tex Petroleum Corporation	68,370.00
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 19-66-15-5	Canadian Superior Oil Ltd., The Calgary & Edmonton Corporation Limited and Canadian Export Gas & Oil Ltd.	23,067.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 20-66-15-5	Canadian Superior Oil Ltd., The Calgary & Edmonton Corporation Limited and Canadian Export Gas & Oil Ltd.	23,067.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
E. 1/2 16 & S.E. 1/4 21-68-15-5	Imperial Oil Enterprises Ltd.	\$ 14,456.66
E. 1/2 21 & W. 1/2 22-69-15-5	Pan American Petroleum Corporation	35,360.00
N. 1/2 11 & S. 1/2 14-70-15-5	Pan American Petroleum Corporation	33,440.00
N. 1/2 & S.E. 1/4 32-70-15-5	Pan American Petroleum Corporation	26,560.00
Sec. 13-73-15-5	Texaco Exploration Company	18,063.29
Sec. 15-73-15-5	The Atlantic Refining Company	14,136.00
Sec. 1-48-16-5	Triad Oil Co. Ltd., Devon-Palmer Oils Ltd. (No Personal Liability) and Royalite Oil Company, Limited	24,239.20
Sec. 14-49-16-5	Uno-Tex Petroleum Corporation	72,010.00
Sec. 32-49-16-5	Uno-Tex Petroleum Corporation	65,610.00
Sec. 18-50-16-5	Uno-Tex Petroleum Corporation	66,610.00
Sec. 32-50-16-5	The Calgary & Edmonton Corporation Limited and Canadian Superior Oil Ltd.	64,117.77
N. 1/2's 33 & 34-50-16-5	The Calgary & Edmonton Corporation Limited and Canadian Superior Oil Ltd.	64,117.77
Sec. 31-63-16-5	The British American Oil Company Limited	25,711.11
Sec. 28-64-16-5	Sinclair Canada Oil Company	32,587.00
Sec. 1-67-16-5	The Atlantic Refining Company	25,702.00
Sec. 19-67-16-5	Pan American Petroleum Corporation	36,640.00
Sec. 2-68-16-5	Texaco Exploration Company	35,213.34
Sec. 5-68-16-5	The Atlantic Refining Company	38,579.00
Sec. 6-68-16-5	The California Standard Company	37,644.00
E. 1/2 35 & W. 1/2 36-68-16-5	Texaco Canada Limited and Texaco Exploration Company	41,811.20
Sec. 6-69-16-5	Tenneco Oil Company	41,523.00
S. 1/2 1-71-16-5	The Calgary & Edmonton Corporation Limited, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	10,037.77
N. 1/2 13 & Sec. 24-71-16-5	The Calgary & Edmonton Corporation Limited, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	29,877.77
Sec. 14-50-17-5	Sun Oil Company	33,920.00
Sec. 15-50-17-5	Sun Oil Company	53,120.00
Sec. 34-50-17-5	Hamilton Brothers Canadian Gas Company Ltd. and Pan American Petroleum Corporation	58,630.40
Sec. 4-51-17-5	The Calgary & Edmonton Corporation Limited	97,897.79
Sec. 16-54-17-5	Champlin Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	45,369.60
Sec. 17-54-17-5	The Atlantic Refining Company	28,902.00
S. 1/2 6-66-17-5	Canadian Superior Oil Ltd., The Calgary & Edmonton Corporation Limited and Canadian Export Gas & Oil Ltd.	17,938.00
Sec. 30-66-17-5	Canadian Superior Oil Ltd., The Calgary & Edmonton Corporation Limited and Canadian Export Gas & Oil Ltd.	41,636.00
Sec. 13-68-17-5	Pan American Petroleum Corporation	36,810.00
W. 1/2 6-70-17-5	The California Standard Company, Standard Oil Company of British Columbia Limited and Imperial Oil Limited	134,400.44
Sec. 30-73-17-5	French Petroleum Company of Canada Ltd.	23,589.90
Sec. 27-50-18-5	The Calgary & Edmonton Corporation Limited	22,517.77
Sec. 32-50-18-5	The Calgary & Edmonton Corporation Limited	22,517.77
Sec. 35-50-18-5	The Atlantic Refining Company	22,478.00
Sec. 25-66-18-5	Canadian Superior Oil Ltd., The Calgary & Edmonton Corporation Limited and Canadian Export Gas & Oil Ltd.	41,636.00
N. 1/2 24-73-18-5	French Petroleum Company of Canada Ltd.	11,789.90
N. 1/2 27 & Sec. 34-73-18-5	French Petroleum Company of Canada Ltd.	43,289.90
Sec. 35 & W. 1/2 36-51-19-5	The Calgary & Edmonton Corporation Limited	62,517.77
Sec. 8-52-19-5	The Calgary & Edmonton Corporation Limited	22,517.77
S. 1/2 & N.E. 1/4 17-70-19-5	Pan American Petroleum Corporation	48,160.00
W. 1/2 6-62-20-5	Pan American Petroleum Corporation	100,848.00
N. 1/2 & S.W. 1/4 7-62-20-5	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	302,416.85
N. 1/2's 8 & 9-62-20-5	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	460,811.35
N. 1/2 & S.E. 1/4 10-62-20-5	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	207,148.85
S. 1/2 & N.E. 1/4 15-62-20-5	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	102,111.11
E. 1/2's 19 & 30-64-20-5	The Calgary & Edmonton Corporation Limited	53,237.77
N. 1/2 3 & S. 1/2 & N.W. 1/4 10-60-21-5	Canadian Superior Oil Ltd.	48,045.00
Sec. 25-62-21-5	Gridoil Freehold Leases Ltd.	167,961.60
Sec. 26-62-21-5	Gridoil Freehold Leases Ltd.	86,681.60
Sec. 9-64-21-5	The Atlantic Refining Company	48,192.00
Sec. 23-64-21-5	The Atlantic Refining Company	48,192.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA (Continued)

Description	Offer Accepted From:	Cash Purchase Price
N. 1/2 34-85-21-5	Sun Oil Company	\$ 9,920.00
N.E. 1/4 4-86-21-5	Sun Oil Company	6,560.00
E. 1/2 32 & W. 1/2 33-66-22-5	The Atlantic Refining Company	12,821.00
Sec. 6-73-22-5	Texaco Canada Limited	29,011.20
N.W. 1/4 36-19-1-5	Texaco Exploration Company	1,818.76
S.E. 1/4 36-19-1-5	Texaco Exploration Company	1,717.76
W. 1/2 30-37-1-5	Hudson's Bay Oil and Gas Company Limited	12,825.05
Sec. 6-39-1-5	The Atlantic Refining Company	16,119.00
Sec. 29-39-1-5	The Atlantic Refining Company	16,121.00
Sec. 30-39-1-5	The Atlantic Refining Company	16,123.00
Sec. 28-42-1-5	The Atlantic Refining Company	10,099.00
Sec. 32-37-2-5	Canadian Superior Oil Ltd.	38,496.00
N. 1/2 & S.E. 1/4 36-37-2-5	Hudson's Bay Oil and Gas Company Limited	19,225.05
N.E. 1/4 26-41-2-5	Amerada Petroleum Corporation	3,277.00
N. 1/2 & S.W. 1/4 36-41-2-5	Amerada Petroleum Corporation	9,711.00
N. 1/2 10-48-2-5	Joe Phillips Limited	3,603.20
Sec. 15-48-2-5	Joe Phillips Limited	7,206.40
N. 1/2 18-38-3-5	Uno-Tex Petroleum Corporation	48,512.00
Sec. 6-45-4-5	The Atlantic Refining Company	16,028.00
Sec. 16-45-4-5	The Atlantic Refining Company	16,049.00
Sec. 30-30-5-5	Shell Canada Limited	11,000.00
W. 1/2 16-39-5-5	DeKalb Agricultural Association, Inc.	22,670.00
Sec. 35-45-5-5	Union Oil Company of Canada Limited	26,000.00
Sec. 36-45-5-5	Union Oil Company of Canada Limited	26,000.00
Sec. 18-40-6-5	Uno-Tex Petroleum Corporation	55,432.00
E. 1/2 5-37-7-5	Socony Mobil Oil of Canada, Ltd.	59,795.20
Sec. 9-38-7-5	Socony Mobil Oil of Canada, Ltd.	42,944.00
Sec. 22-38-7-5	The Atlantic Refining Company	38,519.00
N. 1/2 3 & S. 1/2 10-40-7-5	DeKalb Agricultural Association, Inc.	24,350.00
S. 1/2 & N.W. 1/4 9-40-7-5	DeKalb Agricultural Association, Inc.	18,510.00
W. 1/2 31-50-8-5 & E. 1/2 36-50-9-5	Pan American Petroleum Corporation	9,664.00
Sec. 6-51-8-5	Pan American Petroleum Corporation	19,392.00
E. 1/2 34 & W. 1/2 35-50-9-5	Pan American Petroleum Corporation	7,744.00
N. 1/2 1-51-9-5	Pan American Petroleum Corporation	9,696.00
Sec. 2-51-9-5	Pan American Petroleum Corporation	7,744.00
Sec. 34-54-9-5	Tenneco Oil Company, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	10,242.00
Sec. 30-55-9-5	Tenneco Oil Company, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	33,282.00
Sec. 9-66-9-5	DeKalb Agricultural Association, Inc.	58,350.00
Sec. 16-68-9-5	Tenneco Oil Company	213,419.00
Sec. 20-68-9-5	Tenneco Oil Company	152,419.00
Sec. 21-68-9-5	Tenneco Oil Company	242,419.00
Sec. 22-68-9-5	Tenneco Oil Company	291,419.00
E. 1/2 16-81-9-5	Mid-Western Industrial Gas Ltd.	22,070.00
Sec. 15-81-9-5	The California Standard Company	51,333.33
E. 1/2 20 & W. 1/2 21-81-9-5	The Atlantic Refining Company and Imperial Oil Enterprises Ltd.	46,512.00
W. 1/2 28 & E. 1/2 29-81-9-5	Numac Oil & Gas Ltd. and Uno-Tex Petroleum Corporation	152,000.00
Sec. 23-56-10-5	Tenneco Oil Company	39,682.00
Sec. 14-61-10-5	Texaco Exploration Company	12,821.54
N. 1/2 17 & Sec. 20-81-10-5	The Atlantic Refining Company	29,829.00
Sec. 16-52-11-5	Imperial Oil Enterprises Ltd.	22,533.33
Sec. 20-52-11-5	Imperial Oil Enterprises Ltd.	48,245.67
Sec. 21-52-11-5	Pan American Petroleum Corporation	46,548.00
Sec. 35-51-12-5	Pan American Petroleum Corporation	19,392.00
Sec. 1-52-12-5	Western Decalta Petroleum Limited, The Petrol Oil & Gas Company, Limited, New Brunswick, Oilfields, Limited, New Continental Oil Company of Canada Limited, Consolidated East Crest Oil Company Limited and Westburne Oil Development Limited	6,780.00
Sec. 2-52-12-5	Texaco Exploration Company	130,275.00
Sec. 3-52-12-5	Whitehall Canadian Oils Ltd. and Numac Oil & Gas Ltd.	46,150.00
Sec. 4-52-12-5	Pan American Petroleum Corporation	12,928.00
Sec. 9-52-12-5	Whitehall Canadian Oils Ltd. and Numac Oil & Gas Ltd.	126,150.00
Sec. 18-52-12-5	Sun Oil Company	218,240.00
Sec. 19-52-12-5	Hudson's Bay Oil and Gas Company Limited	15,316.25
Sec. 16-64-12-5	Texaco Exploration Company and Texaco Canada Limited	103,011.08
N. 1/2 & S.E. 1/4 15-57-13-5	Socony Mobil Oil of Canada, Ltd. and Scurry-Rainbow Oil Limited	60,006.60
S. 1/2 22-57-13-5	French Petroleum Company of Canada Ltd.	42,278.78
S. 1/2 4-58-13-5	The California Standard Company	16,777.61
W. 1/2 6-74-13-5	The Calgary & Edmonton Corporation Limited and The Atlantic Refining Company	10,560.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Sec. 29-77-13-5	Richfield Oil Corporation and Canadian Delhi Oil Ltd.	\$ 20,800.00
Sec. 33-45-14-5	Uno-Tex Petroleum Corporation	52,160.00
S. 1/2 & N.E. 1/4 16-56-14-5	Medallion Petroleums Limited	14,888.00
N. 1/2 & S.W. 1/4 19-56-14-5	Medallion Petroleums Limited	10,566.00
E. 1/2 16-73-14-5	The Calgary & Edmonton Corporation Limited and The Atlantic Refining Company	10,560.00
N. 1/2 26 & S. 1/2 35-73-14-5	The Calgary & Edmonton Corporation Limited and The Atlantic Refining Company	21,120.00
Sec. 4-77-14-5	The Calgary & Edmonton Corporation Limited	17,194.00
Sec. 33-46-15-5	Uno-Tex Petroleum Corporation	42,240.00
Sec. 36-16-15-5	Uno-Tex Petroleum Corporation	52,160.00
S. 1/2 & N.E. 1/4 4-47-15-5	Numac Oil & Gas Ltd.	27,100.00
E. 1/2 9-47-15-5	Numac Oil & Gas Ltd.	18,100.00
Sec. 10-47-15-5	Numac Oil & Gas Ltd.	36,100.00
Sec. 27-64-15-5	Tenneco Oil Company	33,288.88
Sec. 1-66-15-5	Texaco Canada Limited	39,174.40
Sec. 3-69-15-5	Pan American Petroleum Corporation	40,077.00
W. 1/2 27 & E. 1/2 28-69-15-5	Pan American Petroleum Corporation	58,176.00
N. 1/2 & S.E. 1/4 36-69-15-5	The Calgary & Edmonton Corporation Limited, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	36,180.00
S. 1/2 & N.E. 1/4 13-70-15-5	The Calgary & Edmonton Corporation Limited, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	33,180.00
Sec. 11-47-16-5	Numac Oil & Gas Ltd.	52,000.00
Sec. 14-47-16-5	Numac Oil & Gas Ltd.	52,000.00
N. 1/2 & S.E. 1/4 23-47-16-5	The Calgary & Edmonton Corporation Limited and Union Oil Company of Canada Limited	28,300.00
Sec. 22-47-16-5	Numac Oil & Gas Ltd.	36,100.00
Sec. 36-43-16-5	Uno-Tex Petroleum Corporation	75,520.00
Sec. 11-49-16-5	Uno-Tex Petroleum Corporation	80,640.00
Sec. 12-49-16-5	Uno-Tex Petroleum Corporation	75,520.00
Sec. 2-65-16-5	The Calgary & Edmonton Corporation Limited and Canadian Export Gas & Oil Ltd.	51,860.00
Sec. 16-65-16-5	Pan American Petroleum Corporation	48,480.00
Sec. 9-50-17-5	Uno-Tex Petroleum Corporation	60,160.00
Sec. 30-50-17-5	Uno-Tex Petroleum Corporation	48,192.00
Sec. 7-56-18-5	Champlin Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	58,272.00
Sec. 21-56-18-5	The Atlantic Refining Company	24,121.00
Sec. 35-52-20-5	The Calgary & Edmonton Corporation Limited	10,640.00
Sec. 2-53-20-5	Hudson's Bay Oil and Gas Company Limited, Berland River Exploration Limited and Triad Oil Co. Ltd.	12,885.85
N. 1/2 20 & S. 1/2 29-53-20-5	The Calgary & Edmonton Corporation Limited	10,640.00
N. 1/2 20-59-20-5	The Atlantic Refining Company	32,411.00
Sec. 29-59-20-5	The Atlantic Refining Company	80,338.00
W. 1/2 31-59-20-5	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited and Socony Mobil Oil of Canada, Ltd.	25,600.00
W. 1/2 31-61-20-5	Whitehall Canadian Oils Ltd., Northern Natural Gas Producing Company and Westburne Oil Development Limited	61,170.00
N. 1/2 & S.E. 1/4 36-61-21-5	Gridoil Freehold Leases Ltd.	54,577.60
S. 1/2 1 & S. 1/2 2-62-21-5	Gridoil Freehold Leases Ltd.	96,355.20
Sec. 7-73-21-5	Texaco Canada Limited	30,214.40
Sec. 17-54-22-5	Imperial Oil Enterprises Ltd.	25,888.44
N. 1/2 19-54-22-5	Imperial Oil Enterprises Ltd.	19,435.66
Sec. 30-54-22-5	Imperial Oil Enterprises Ltd.	38,745.22
N. 1/2 24 & S. 1/2 25-54-23-5	Imperial Oil Enterprises Ltd.	54,785.88
Sec. 30-65-23-5	The Atlantic Refining Company	38,572.00
Sec. 31-65-23-5	Pan American Petroleum Corporation	9,600.00
N. 1/2 15 & S. 1/2 22-63-2-6	The Atlantic Refining Company	160,167.00
Sec. 25-63-2-6	Arkansas Fuel and Minerals Ltd.	102,725.00
Sec. 29-63-2-6	The Atlantic Refining Company	128,179.00
Sec. 6-69-8-6	Sun Oil Company	16,640.00
S. 1/2 8-69-8-6	Sun Oil Company	13,120.00
Sec. 20-27-1-5	Socony Mobil Oil of Canada, Ltd.	34,380.80
W. 1/2 32-27-2-5	Imperial Oil Enterprises Ltd.	6,475.75
S. 1/2 6-28-2-5	Imperial Oil Enterprises Ltd.	6,475.00
N.W. 1/4 15-45-2-5	The Atlantic Refining Company	1,988.80

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
Sec. 36-27-3-5	Imperial Oil Enterprises Ltd.	\$ 12,910.00
W. $\frac{1}{2}$ 9-36-4-5 (Except Natural Gas in Lower Mannville zone, Jurassic zone and Rundle zone)	Triad Oil Co. Ltd.	16,033.22
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 33 & N.W. $\frac{1}{4}$ 34-36-4-5 (Except Natural Gas in Lower Mannville zone)	Supertest Petroleum Corporation, Limited	8,250.00
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 10 & E. $\frac{1}{2}$ 15-37-4-5 (Except Natural Gas in Lower Mannville zone, Jurassic zone and Rundle zone)	DeKalb Agricultural Association, Inc.	16,390.00
N. $\frac{1}{2}$ 16, S. $\frac{1}{2}$ 21 & S.W. $\frac{1}{4}$ 22-37-4-5 (Except Natural Gas in Lower Mannville zone, Jurassic zone and Rundle zone)	DeKalb Agricultural Association, Inc.	20,590.00
Sec. 30-37-4-5 (Except Natural Gas in Lower Mannville zone, Jurassic zone and Rundle zone)	DeKalb Agricultural Association, Inc.	13,950.00
Sec. 6-39-4-5	Brinkerhoff Drilling Co. Ltd. and Murphy Oil Company Ltd.	53,043.20
Sec. 28-43-4-5	Great Plains Development Company of Canada, Ltd.	35,855.00
Sec. 32-43-4-5 (Except Natural Gas in Pekisko-Banff zone)	Canadian Superior Oil Ltd.	9,731.00
Sec. 16-44-4-5	The Atlantic Refining Company	17,465.60
Sec. 17-44-4-5	The Atlantic Refining Company	17,465.60
Sec. 19-45-4-5	The Calgary & Edmonton Corporation Limited	27,795.20
Sec. 20-45-4-5	Imperial Oil Enterprises Ltd. and Canadian Superior Oil Ltd.	19,340.50
S. $\frac{1}{2}$ 24-45-4-5	Tenneco Oil Company	3,520.00
Sec. 30-45-4-5	The Calgary & Edmonton Corporation Limited	27,795.20
Sec. 11-46-4-5	Tenneco Oil Company	7,040.00
Sec. 7-48-4-5	Sage Oil Company Limited	6,421.00
E. $\frac{1}{2}$ 16-51-4-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	9,180.00
Sec. 14-85-4-5	Uno-Tex Petroleum Corporation	13,010.00
Sec. 24-85-4-5	Uno-Tex Petroleum Corporation	13,010.00
N. $\frac{1}{2}$ 5 & S. $\frac{1}{2}$ 8-86-4-5	The Atlantic Refining Company	10,989.00
Sec. 10-23-5-5	Imperial Oil Enterprises Ltd.	9,666.66
Sec. 21-23-5-5	Monsanto Oils Ltd. and Monsanto Chemical Company	12,160.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 28-23-5-5	Canadian Pacific Oil and Gas Limited	17,760.00
L.S.'s 1 to 5 incl., L.S.'s 8 & 9 and L.S.'s 12 to 16 incl. 33-23-5-5	Monsanto Oils Ltd. and Monsanto Chemical Company	9,120.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 18-24-5-5	Canadian Pacific Oil and Gas Limited	56,160.00
Sec. 29-41-5-5	The Atlantic Refining Company	10,144.00
E. $\frac{1}{2}$ 24-45-5-5	Imperial Oil Enterprises Ltd. and Canadian Superior Oil Ltd.	8,075.50
S. $\frac{1}{2}$ 20-50-5-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	6,540.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 23-50-5-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	14,590.00

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
N. $\frac{1}{2}$ 2-52-6-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	\$ 3,860.00
N. $\frac{1}{2}$ 4 & Sec.		
S. $\frac{1}{2}$ 9-89-7-5	Uno-Tex Petroleum Corporation	26,880.00
S. $\frac{1}{2}$ 15-89-7-5	The Atlantic Refining Company	7,114.00
Sec. 16-61-9-5	Texaco Exploration Company	18,771.00
Sec. 20-62-9-5	Montclair Oil Ltd.	19,255.00
Sec. 15-63-9-5	The Calgary & Edmonton Corporation Limited	27,737.60
Sec. 8-66-9-5	Texaco Exploration Company	70,411.00
Sec. 12-68-9-5	Texaco Exploration Company	161,212.00
Sec. 23-68-9-5	Tenneco Oil Company	217,464.00
Sec. 4-69-9-5	Tenneco Oil Company	50,278.00
E. $\frac{1}{2}$ 24-81-9-5	The Atlantic Refining Company and Imperial Oil Enterprises Ltd.	75,375.00
E. $\frac{1}{2}$ 25-81-9-5	The Atlantic Refining Company and Imperial Oil Enterprises Ltd.	112,450.00
E. $\frac{1}{2}$ 32-81-9-5	Uno-Tex Petroleum Corporation	81,000.00
Sec. 23-61-10-5	Montclair Oil Ltd.	19,255.00
N. $\frac{1}{2}$'s 34 & Sec. 35-69-10-5	Sinclair Canada Oil Company	277,640.00
Sec. 19-52-11-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	6,420.00
S. $\frac{1}{2}$ 6-55-11-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	6,580.00
S. $\frac{1}{2}$ 6-59-11-5	The Atlantic Refining Company	4,416.00
Sec. 8-59-11-5	Triad Oil Co. Ltd.	14,113.22
Sec. 19-67-11-5	Texaco Canada Limited, Home Oil Company Limited, United Oils, Limited and Alminex Limited	25,606.66
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 31-73-11-5	The Calgary & Edmonton Corporation Limited	12,777.60
E. $\frac{1}{2}$ 32-73-11-5	Imperial Oil Enterprises Ltd.	5,195.00
Sec. 5-74-11-5	Imperial Oil Enterprises Ltd.	10,325.00
S.W. $\frac{1}{4}$ 6-74-11-5	Texaco Exploration Company	4,112.00
Sec. 11-52-12-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	7,088.00
Sec. 36-52-12-5	Socony Mobil Oil of Canada, Ltd.	22,560.00
N.E. $\frac{1}{4}$ 1 & S.E. $\frac{1}{4}$ 12-74-12-5	Texaco Exploration Company	8,181.00
Sec. 6-53-13-5	Imperial Oil Enterprises Ltd.	35,550.00
E. $\frac{1}{2}$ 12-57-13-5	Pacific Petroleums Ltd.	46,646.40
N. $\frac{1}{2}$ & S.E. $\frac{1}{4}$ 13-57-13-5	Pacific Petroleums Ltd.	69,969.60
W. $\frac{1}{2}$ 19-66-13-5	Hamilton Brothers Canadian Gas Company Ltd.	26,880.00
Sec. 30-66-13-5	The Atlantic Refining Company	10,144.00
S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 6-47-14-5	Uno-Tex Petroleum Corporation	58,610.00
N. $\frac{1}{4}$ 30 & S. $\frac{1}{2}$ & N.W. $\frac{1}{4}$ 31-57-14-5	Canada-Cities Service Petroleum Corporation	22,017.00
Sec. 7-64-14-5	Tenneco Oil Company	53,240.00
Sec. 20-66-14-5	Hamilton Brothers Canadian Gas Company Ltd.	40,640.00
E. $\frac{1}{2}$ 25-66-14-5	The Atlantic Refining Company	5,072.00
S. $\frac{1}{2}$ 13-75-14-1	The California Standard Company	18,104.00
Sec. 26-75-14-5	The California Standard Company	48,231.00
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 29-75-14-5	The California Standard Company	27,153.00
N. $\frac{1}{2}$ & S.W. $\frac{1}{4}$ 33-47-15-5	The Calgary & Edmonton Corporation Limited, Union Oil Company of Canada Limited and Kern County Land Company	33,052.80
N. $\frac{1}{2}$ 34-47-15-5	The Calgary & Edmonton Corporation Limited, Union Oil Company of Canada Limited and Kern County Land Company	13,868.80
S. $\frac{1}{2}$ & N.E. $\frac{1}{4}$ 3-48-15-5	The Calgary & Edmonton Corporation Limited, Union Oil Company of Canada Limited and Kern County Land Company	23,107.20
S. $\frac{1}{2}$ 4-48-15-5	The Calgary & Edmonton Corporation Limited, Union Oil Company of Canada Limited and Kern County Land Company	22,035.20
Sec. 10-57-15-5	Canada-Cities Service Petroleum Corporation	34,048.00
N. $\frac{1}{2}$ 7 & S. $\frac{1}{2}$		

CROWN RESERVES PURCHASED ELSEWHERE IN ALBERTA

(Continued)

Description	Offer Accepted From:	Cash Purchase Price
		\$
Sec. 18-67-15-5	The Atlantic Refining Company	46,393.60
Sec. 11-67-15-5	The Atlantic Refining Company	27,155.20
Sec. 9-71-15-5	Texaco Exploration Company	32,412.00
Sec. 12-71-15-5	The Calgary & Edmonton Corporation Limited, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	29,849.60
N. 1/2 31-51-16-5 &		
N. 1/2 36-51-17-5	The Atlantic Refining Company	42,041.60
S. 1/2 7-52-16-5 &		
S. 1/2 12-52-17-5	The Atlantic Refining Company	42,041.60
S. 1/2 35-53-16-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited, Westburne Oil Development Limited and Consolidated East Crest Oil Company Limited	16,780.00
S. 1/2 3-55-16-5	Western Decalta Petroleum Limited, New Brunswick Oilfields, Limited, The Petrol Oil & Gas Company, Limited, New Continental Oil Company of Canada Limited and Consolidated East Crest Oil Company Limited	33,580.00
Sec. 35-63-16-5	The Atlantic Refining Company	10,144.00
Sec. 11-64-16-5	The California Standard Company	6,503.00
Sec. 14-64-16-5	The California Standard Company	20,056.00
Sec. 26-64-16-5	The Atlantic Refining Company	12,672.00
Sec. 22-65-16-5	Skelly Oil Company	41,504.00
Sec. 27-65-16-5	The Atlantic Refining Company	36,851.20
N. 1/2 15 & S. 1/2		
Sec. 22-66-16-5	The Atlantic Refining Company	49,593.60
Sec. 16-66-16-5	The Atlantic Refining Company	49,593.60
N. 1/2 35-66-16-5	The Atlantic Refining Company	21,564.80
Sec. 30-67-16-5	Imperial Oil Enterprises Ltd.	22,745.00
Sec. 22-65-17-5	The Calgary & Edmonton Corporation Limited, Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	42,662.40
Sec. 24-65-17-5	Canada-Cities Service Petroleum Corporation	68,032.00
Sec. 1-49-18-5	The Atlantic Refining Company	22,649.60
N. 1/2 12 & S. 1/2		
Sec. 13-55-18-5	The Atlantic Refining Company	35,577.60
Sec. 14-67-18-5	Imperial Oil Enterprises Ltd.	35,625.00
N. 1/2 & S.E. 1/4		
Sec. 22-67-18-5	Imperial Oil Enterprises Ltd.	39,245.00
Sec. 18-66-19-5	The Calgary & Edmonton Corporation Limited and Canadian Superior Oil Ltd.	29,849.60
Sec. 35-50-20-5	Montreal Trust Company	23,050.00
Sec. 28-59-20-5	The Atlantic Refining Company	32,371.20
Sec. 34-59-20-5	The Atlantic Refining Company	32,371.20
Sec. 14-66-20-5	Skelly Oil Company	42,924.80
Sec. 2-56-21-5	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited, Pan American Petroleum Corporation and Socony Mobil Oil of Canada, Ltd.	9,600.00
Sec. 23-56-21-5	Canadian Fina Oil Limited, Hudson's Bay Oil and Gas Company Limited, Pan American Petroleum Corporation and Socony Mobil Oil of Canada, Ltd.	19,200.00
Sec. 25-59-21-5	Canadian Superior Oil Ltd.	32,771.00
Sec. 3-64-21-5	The Atlantic Refining Company	42,105.60
Sec. 10-64-21-5	The Atlantic Refining Company	54,905.60
Sec. 33-65-21-5	Uno-Tex Petroleum Corporation	40,448.00
Sec. 1-65-21-5	The Calgary & Edmonton Corporation Limited and Canadian Superior Oil Ltd.	29,849.60
S. 1/2 & N.W. 1/4		
28-73-21-5	Socony Mobil Oil of Canada Ltd.	26,664.00
S. 1/2 & N.E. 1/4		
3-72-22-5	Pan American Petroleum Corporation	24,065.00
Sec. 3-73-22-5	Skelly Oil Company	39,052.80
N. 1/2 & S.E. 1/4		
22-66-23-5	Pan American Petroleum Corporation	39,550.00
S. 1/2 & N.E. 1/4		
27-66-23-5	Triad Oil Co. Ltd.	16,833.22
Sec. 31-72-23-5	The Atlantic Refining Company	16,122.00
Sec. 9-73-23-5	The Atlantic Refining Company	16,122.00
Sec. 19-72-3-6	The Atlantic Refining Company	8,832.00
Sec. 5-73-3-6	Teck Corporation Limited	16,566.00
Sec. 7-73-3-6	Teck Corporation Limited	9,676.00
N. 1/2 & S.W. 1/4 of	Pan American Petroleum Corporation and	
Frac. Sec. 21-84-13-6	Imperial Oil Enterprises Ltd.	34,850.00
		\$ 21,360,453.76

PETROLEUM AND NATURAL GAS RESERVATIONS PURCHASED IN PROVINCIAL RESERVES

Comprising	Offer Accepted From:	Cash Purchase Price
46,080 acres in townships 75 and 76, range 23, west of the 4th meridian and located in Marten Hills Provincial Reserve.	Uno-Tex Petroleum Corporation	\$ 242,380.80
58,880 acres in townships 65 and 66, ranges 25 and 26, west of the 4th meridian and located in Big Bend Provincial Reserve.	Imperial Oil Enterprises Ltd.	22,213.35
46,080 acres in townships 75 and 76, range 2, west of the 5th meridian and located in Marten Hills Provincial Reserve.	Uno-Tex Petroleum Corporation	212,428.80
27,200 acres in township 65, ranges 24 and 25, west of the 4th meridian and located in Big Bend Provincial Reserve.	Apache Corporation	42,976.00
42,560 acres in townships 62 and 63, range 7, west of the 5th meridian and located in Virginia Hills Provincial Reserve.	Supertest Petroleum Corporation, Limited	4,967.00
46,080 acres in township 58, ranges 8 and 9, west of the 6th meridian and located in Smoky River Provincial Reserve.	The British American Oil Company Limited	553,881.60
46,080 acres in township 59, ranges 8 and 9, west of the 6th meridian and located in Smoky River Provincial Reserve.	The California Standard Company	283,392.00
46,200 acres in townships 66 and 67, range 24, west of the 4th meridian and in township 66, range 25, west of the 4th meridian and located in Big Bend Provincial Reserve.	Pan American Petroleum Corporation	34,650.00
39,040 acres in township 67, ranges 25 and 26, west of the 4th meridian and located in Big Bend Provincial Reserve.	Canadian Delhi Oil Ltd., Richfield Oil Corporation and Prairie Oil Royalties Company, Ltd.	46,750.00
		<u>\$ 1,443,639.55</u>

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

Comprising	Offer Accepted From:	Cash Purchase Price
7,040 acres in townships 54 and 55, range 2, west of the 5th meridian and in township 55, range 3, west of the 5th meridian — Duvernay formation — ten quarter sections.	Westcoast Production Company Limited	\$ 16,432.57
7,040 acres in township 44, ranges 7 and 8, west of the 5th meridian and in township 45, range 8, west of the 5th meridian — Cardium formation — ten quarter sections.	Aztec Oil & Gas Company	24,000.00
7,040 acres in townships 55 and 56, range 9, west of the 5th meridian — Banff formation — ten quarter sections.	Canadian Superior Oil Ltd. and Canadian Export Gas & Oil Ltd.	20,999.00
7,680 acres in township 72, ranges 12 and 13, west of the 5th meridian — Elk Point group — eleven quarter sections.	Texaco Exploration Company	52,800.00
9,600 acres in townships 62 and 63, ranges 14 and 15, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	The Pure Oil Company	363,542.50
9,440 acres in townships 52 and 53, range 15, west of the 5th meridian and in township 53, range 16, west of the 5th meridian — Mississippian — fourteen quarter sections.	Home Oil Company Limited, Alminex Limited, Kern County Land Company and Socony Mobil Oil of Canada, Ltd.	261,111.12
9,600 acres in townships 51, 52 and 53, range 17, west of the 5th meridian — Shunda formation of the Rundle group — fourteen quarter sections.	Triad Oil Co. Ltd.	275,672.00
9,600 acres in townships 70 and 71, range 17, west of the 5th meridian and in township 71, range 18, west of the 5th meridian — Elk Point group — fourteen quarter sections.	Texaco Exploration Company	60,480.11

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Comprising	Offer Accepted From:	Cash Purchase Price
10,880 acres in townships 64 and 65, range 23, west of the 5th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	The Atlantic Refining Company	\$ 325,000.00
6,400 acres in townships 87 and 88, range 7, west of the 5th meridian — immediately above the Precambrian granite — nine quarter sections.	Numac Oil & Gas Ltd.	37,600.00
7,040 acres in townships 59 and 60, range 10, west of the 5th meridian — Banff formation — ten quarter sections.	Lobitos Oilfields Canada Ltd. and Medallion Petroleums Limited	100,562.00
8,000 acres in townships 70 and 71, ranges 10 and 11, west of the 5th meridian — Gilwood sand of the Elk Point group — twelve quarter sections.	The California Standard Company, Standard Oil Company of British Columbia Limited and Shell Oil Company of Canada, Limited	112,775.04
10,723 acres in townships 62 and 63, ranges 26 and 27, west of the 5th meridian — Leduc formation of the Woodbend group — sixteen quarter sections.	Shell Oil Company of Canada, Limited	53,666.66
6,400 acres in townships 39, 40 and 41, range 4, west of the 5th meridian — Banff formation — twelve quarter sections.	Apache Corporation and Canada-Cities Service Petroleum Corporation	145,920.00
5,440 acres in township 48, range 5, west of the 5th meridian — Cardium formation nine quarter sections.	Kerr-McGee Oil Industries, Inc.	50,788.80
7,520 acres in townships 37 and 38, ranges 6 and 7, west of the 5th meridian — Cardium formation — eleven quarter sections.	Supertest Petroleum Corporation Limited	21,167.00
5,920 acres in townships 87 and 88, range 8, west of the 5th meridian — Granite Wash — nine quarter sections.	Numac Oil & Gas Ltd.	181,000.00
8,960 acres in township 70, range 11 and 12, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	Pan American Petroleum Corporation	180,311.00
11,200 acres in townships 53 and 54, ranges 14 and 15, west of the 5th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	Socony Mobil Oil of Canada Ltd., Home Oil Company Limited, Kern County Land Company and Alminex Limited	448,000.00
6,880 acres in township 54, ranges 19 and 20, west of the 5th meridian — Cardium formation — eleven quarter sections.	Basin Oil Exploration Limited	21,170.00
10,880 acres in townships 66 and 67, ranges 5 and 6, west of the 6th meridian and in township 67, range 7, west of the 6th meridian — Wabamun group — sixteen quarter sections.	Shell Oil of Company of Canada Limited	1,100,002.57
9,600 acres in townships 58 and 59, range 10, west of the 6th meridian and in township 59, range 11, west of the 6th meridian — Mississippian — fourteen quarter sections.	Pan American Petroleum Corporation	107,136.00
6,400 acres in townships 46 and 47, range 2, west of the 5th meridian and in township 47, range 3, west of the 5th meridian — Cardium formation — nine quarter sections.	Supertest Petroleum Corporation, Limited	16,760.00
7,040 acres in townships 82 and 83, ranges 7 and 8, west of the 5th meridian — immediately above the Precambrian granite — ten quarter sections.	The Atlantic Refining Company	92,282.00
10,400 acres in townships 54 and 55, ranges 13 and 14, west of the 5th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	Socony Mobil Oil of Canada, Ltd., Home Oil Company Limited, Alminex Limited and Kern County Land Company	515,097.60
7,680 acres in township 61, ranges 14 and 15, west of the 5th meridian and in township 62, range 15, west of the 5th meridian — Mississippian — eleven quarter sections.	Hamilton Brothers Canadian Gas Company Ltd. and Canadian Superior Oil Ltd.	70,616.00

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Comprising	Offer Accepted From:	Cash Purchase Price
11,040 acres in townships 47 and 48, ranges 15 and 16, west of the 5th meridian — Shunda formation of the Rundle group — sixteen quarter sections.	Triad Oil Co. Ltd., Devon-Palmer Oils Ltd. (No Personal Liability) and Royalite Oil Company, Limited	\$ 251,772.80
9,600 acres in township 50, ranges 16 and 17, west of the 5th meridian and in township 51, range 17, west of the 5th meridian — Shunda, formation of the Rundle group — fourteen quarter sections.	Triad Oil Co. Ltd. and Hudson's Bay Oil and Gas Company Limited	575,622.00
9,600 acres in township 69, ranges 18 and 19, west of the 5th meridian and in township 70, ranges 19 and 20, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	Pan American Petroleum Corporation	68,160.00
10,880 acres in townships 49 and 50, ranges 26 and 27, west of the 5th meridian — Devonian system — sixteen quarter sections.	Central-Del Rio Oils Limited	53,712.75
12,000 acres in townships 67 and 68, range 4, west of the 6th meridian and in township 67, range 5, west of the 6th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	Pan American Petroleum Corporation	3,252,000.00
11,200 acres in townships 32 and 33, ranges 5 and 6, west of the 5th meridian and in township 34, range 6, west of the 5th meridian — Leduc formation of the Woodbend group — sixteen quarter sections.	Amerada Petroleum Corporation	35,111.00
8,000 acres in townships 41 and 42, range 5, west of the 5th meridian — Mississippian — twelve quarter sections.	Apache Oil Corporation	103,680.00
7,040 acres in townships 80 and 81, ranges 8 and 9, west of the 5th meridian — immediately above the Precambrian granite — ten quarter sections.	The Atlantic Refining Company and Imperial Oil Enterprises Ltd.	103,333.00
9,600 acres in township 66, range 12, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	Richfield Oil Corporation and Canadian Delhi Oil Ltd.	226,508.80
8,320 acres in township 58, ranges 17 and 18, west of the 5th meridian and in township 59, range 18, west of the 5th meridian — Triassic system — twelve quarter sections.	Hamilton Brothers Canadian Gas Company Ltd.	20,103.00
10,720 acres in townships 50 and 51, ranges 18 and 19, west of the 5th meridian and in township 52, range 19, west of the 5th meridian — Mississippian — sixteen quarter sections.	H. W. Bass & Sons Inc., Southland Royalty Company and The Calgary & Edmonton Corporation Limited	201,102.13
9,600 acres in townships 66 and 67, range 18, west of the 5th meridian and in township 66, range 19, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	The British American Oil Company Limited	2,251,111.11
9,600 acres in townships 66 and 67, range 19, west of the 5th meridian and in township 68, range 19, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	The British American Oil Company Limited	751,111.11
9,600 acres in township 71, range 20 west of the 5th meridian and in townships 70 and 71, range 21, west of the 5th meridian — Cambrian Sediments — fourteen quarter sections.	Canadian Kewanee Limited	30,011.11

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Comprising	Offer Accepted From:	Cash Purchase Price
6,400 acres in township 55, range 7, west of the 5th meridian, townships 54 and 55, range 8, west of the 5th meridian and in township 54, range 9, west of the 5th meridian — Banff formation — ten quarter sections,	Pacific Petroleum Ltd.	\$ 25,584.00
7,200 acres in township 69, ranges 10 and 11, west of the 5th meridian — Gilwood sand of the Elk Point group — eleven quarter sections.	The California Standard Company and Standard Oil Company of British Columbia Limited	227,634.12
7,680 acres in townships 51 and 52, range 11, west of the 5th meridian and in township 52, range 12, west of the 5th meridian — Mississippian — eleven quarter sections.	Western Decalta Petroleum Limited, New Continental Oil Company of Canada Limited and Consolidated East Crest Oil Company Limited	73,435.00
9,440 acres in townships 53 and 54, ranges 12 and 13, west of the 5th meridian — Mississippian — fourteen quarter sections.	Imperial Oil Enterprises Ltd.	67,545.75
6,400 acres in township 86, range 12, west of the 5th meridian and in townships 85 and 86, range 13, west of the 5th meridian — immediately above the Precambrian granite — nine quarter sections.	Hudson's Bay Oil and Gas Company Limited	15,001.01
11,040 acres in townships 54 and 55, range 15, west of the 5th meridian — Beaverhill Lake formation — sixteen quarter sections.	Kern County Land Company	26,990.00
10,880 acres in townships 67 and 68, ranges 15 and 16, west of the 5th meridian and in township 69, range 16 west of the 5th meridian — immediately above the Precambrian granite — sixteen quarter sections.	Imperial Oil Enterprises Ltd.	121,070.00
9,600 acres in townships 49 and 50, range 16, west of the 5th meridian — Rundle group — fourteen quarter sections.	Uno-Tex Petroleum Corporation	606,240.00
9,120 acres in township 53, range 16, west of the 5th meridian and in townships 53 and 54, range 17, west of the 5th meridian — Mississippian — fourteen quarter sections.	Champlain Oil & Refining Co., Texas Pacific Coal and Oil Company and Midwest Oil Corporation	506,878.98
7,520 acres in township 60, ranges 16 and 17, west of the 5th meridian — Banff formation — eleven quarter sections.	Hamilton Brothers Canadian Gas Company Ltd.	21,000.00
10,080 acres in township 61, range 20, west of the 5th meridian — Slave Point formation — sixteen quarter sections.	Pan American Petroleum Corporation	102,200.00
10,720 acres in townships 61 and 62, range 21, west of the 5th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	Pan American Petroleum Corporation	348,348.00
10,880 acres in townships 63 and 64, ranges 21 and 22, west of the 5th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	Pan American Petroleum Corporation	65,650.00
10,323 acres in township 66, range 27, west of the 5th meridian and in townships 66 and 67, range 1, west of the 6th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	Bailey Selburn Oil & Gas Ltd.	117,222.40
9,600 acres in township 39, range 6, west of the 5th meridian and in townships 39 and 40, range 7, west of the 5th meridian — Mississippian — fourteen quarter sections.	Union Oil Company of Canada Limited	25,000.00

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Comprising	Offer Accepted From:	Cash Purchase Price
6,720 acres in townships 58 and 59, range 11, west of the 5th meridian — Mississippian — ten quarter sections.	Pan American Petroleum Corporation	\$ 20,890.00
11,040 acres in townships 55 and 56, range 15, west of the 5th meridian and in townships 55, 56 and 57, range 16, west of the 5th meridian — Elk Point group — sixteen quarter sections.	Canada-Cities Service Petroleum Corporation	156,569.60
9,600 acres in townships 68 and 69, ranges 16 and 17, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	Dome Petroleum Limited and Provo Gas Producers Limited	158,412.80
9,600 acres in townships 69 and 70, range 17, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	The Calgary & Edmonton Corporation Limited and Canadian Kewanee Limited	40,111.11
10,880 acres in townships 65 and 66, range 18, west of the 5th meridian and in township 65, ranges 17, 18 and 19, west of the 5th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	The Pure Oil Company	182,000.00
9,440 acres in townships 73 and 74, ranges 23 and 24, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	Devon-Palmer Oils Ltd. (No Personal Liability) and Prairie Oil Royalties Company, Ltd.	29,128.00
7,680 acres in township 63, range 2, west of the 6th meridian and in townships 63 and 64, range 3, west of the 6th meridian — Shaftesbury formation of Upper Cretaceous age — eleven quarter sections.	Scurry-Rainbow Oil Limited	388,960.71
7,520 acres in township 47, ranges 4, 5 and 6, west of the 5th meridian — Banff formation — eleven quarter sections.	Dome Petroleum Ltd.	18,888.00
11,520 acres in townships 37 and 38, range 7, west of the 5th meridian — Beaverhill Lake formation — sixteen quarter sections.	Socony Mobil Oil of Canada, Ltd.	531,891.20
6,080 acres in township 85, ranges 8 and 9, west of the 5th meridian — immediately above the Precambrian granite — nine quarter sections.	Imperial Oil Enterprises Ltd.	51,125.75
8,960 acres in township 65, ranges 12 and 13, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	Canadian Export Gas & Oil Ltd.	301,333.49
10,720 acres in township 63, ranges 13, 14 and 15, west of the 5th meridian and in township 64, range 15, west of the 5th meridian — immediately above the Precambrian granite — sixteen quarter sections.	Canadian Superior Oil Ltd.	41,333.00
9,600 acres in townships 71 and 72, ranges 13 and 14, west of the 5th meridian — immediately above the Precambrian granite — fourteen quarter sections.	Texaco Exploration Company	78,411.00
7,520 acres in township 56, ranges 14 and 15, west of the 5th meridian and in township 57, range 15, west of the 5th meridian — Pekisko formation — eleven quarter sections.	Western Decalta Petroleum Limited, The Petrol Oil & Gas Company, Limited (N.P.L.), New Brunswick Oilfields, Limited, Westburne Oil Development Limited, New Continental Oil Company of Canada Limited and Consolidated East Crest Oil Company Limited	74,612.00
10,880 acres in townships 64, 65 and 66 range 15, west of the 5th meridian and in townships 65 and 66, range 16, west of the 5th meridian — immediately above the Precambrian granite — sixteen quarter sections.	Pan American Petroleum Corporation	32,640.00

CROWN RESERVE DRILLING RESERVATIONS PURCHASED

(Continued)

Comprising	Offer Accepted From:	Cash Purchase Price
10,880 acres in township 48, ranges 15 and 16, west of the 5th meridian and in township 49, ranges 16 and 17, west of the 5th meridian — Shunda formation of the Rundle group — sixteen quarter sections.	Uno-Tex Petroleum Corporation	\$ 501,920.00
11,040 acres in township 48, range 15, west of the 5th meridian and in township 49, ranges 15, 16 and 17, west of the 5th meridian — Shunda formation of the Rundle group — sixteen quarter sections.	Uno-Tex Petroleum Corporation	513,360.00
10,240 acres in townships 64 and 65, range 17, west of the 5th meridian and in townships 63, 64 and 65, range 18, west of the 5th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	Triad Oil Co. Ltd. and B.P. Exploration Canada Limited	300,000.00
9,600 acres in townships 55 and 56, range 18, west of the 5th meridian and in township 56, range 19, west of the 5th meridian — Mississippian — fourteen quarter sections.	Champlin Oil & Refining Co., Seafort Petroleum Ltd. and Midwest Oil Corporation	28,000.00
10,880 acres in townships 74 and 75, ranges 1 and 2, west of the 6th meridian — granite wash — sixteen quarter sections.	Sun Oil Company	25,711.00
7,040 acres in township 111, range 4, west of the 6th meridian — Chinchaga formation of the Elk Point group — ten quarter sections.	Imperial Oil Enterprises Ltd.	33,885.50
7,840 acres in townships 105 and 106, range 7, west of the 6th meridian — Chinchaga formation of the Elk Point group — eleven quarter sections.	Imperial Oil Enterprises Ltd.	26,595.00
6,400 acres in township 74, ranges 10 and 11, west of the 6th meridian — Cadotte member — nine quarter sections.	The California Standard Company and Standard Oil Company of British Columbia Limited	18,734.40
5,690 acres in townships 84 and 85, range 13, west of the 6th meridian — Mississippian — eleven quarter sections.	Pan American Petroleum Corporation and Imperial Oil Limited	71,250.00
7,520 acres in township 72, ranges 5 and 6, west of the 5th meridian and in township 71, range 7, west of the 5th meridian — immediately above the Precambrian granite — eleven quarter sections.	Imperial Oil Enterprises Ltd.	182,750.00
6,080 acres in township 91, ranges 7 and 8, west of the 5th meridian — immediately above the Precambrian granite — nine quarter sections.	The California Standard Company and Standard Oil Company of British Columbia Limited	23,104.00
8,960 acres in township 66, range 8, west of the 5th meridian — Gilwood sand of the Elk Point group — twelve quarter sections.	Socony Mobil Oil of Canada Ltd. and The Atlantic Refining Company	215,136.00
6,880 acres in township 84, ranges 8 and 9, west of the 5th meridian — immediately above the Precambrian granite — ten quarter sections.	Imperial Oil Enterprises Ltd.	65,555.55
9,600 acres in township 63, range 9, west of the 5th meridian and in townships 62 and 63, range 10, west of the 5th meridian — Swan Hills member of the Beaverhill Lake formation — fourteen quarter sections.	Apache Oil Corporation	44,400.00
9,280 acres in township 70, range 9, west of the 5th meridian and in townships 69 and 70, range 10, west of the 5th meridian — immediately above the Precambrian granite — fourteen quarter sections.	The California Standard Company, Standard Oil Company of British Columbia Limited and Shell Canada Limited	2,051,222.00

CROWN RESERVE NATURAL GAS LICENCES PURCHASED

Comprising	Offer Accepted From:	Cash Purchase Price
7,040 acres in township 52, range 11, west of the 5th meridian — Cadium formation — ten quarter sections.	Pan American Petroleum Corporation	\$ 67,270.00
10,880 acres in township 55, ranges 12, 13 and 14, west of the 5th meridian — Elk Point group — sixteen quarter sections.	Socony Mobil Oil of Canada Ltd.	31,232.00
9,440 acres in township 69, range 14, west of the 5th meridian and in townships 69 and 70, range 15, west of 5th meridian — immediately above the Precambrian granite — fourteen quarter sections.	Pan American Petroleum Corporation	68,120.00
9,440 acres in townships 67 and 68, range 16, west of the 5th meridian and in townships 66, 67 and 68, range 17, west of the 5th meridian — Gilwood sand of the Elk Point group — fourteen quarter sections.	Pan American Petroleum Corporation	160,204.00
9,600 acres in township 59, ranges 17 and 18, west of the 5th meridian — Shunda formation of the Rundle group — fourteen quarter sections.	Hamilton Brothers Canadian Gas Company Ltd. and DeKalb Agricultural Association, Inc.	29,120.00
7,200 acres in township 61, range 18, west of the 5th meridian — Mississippian — eleven quarter sections.	Hudson's Bay Oil and Gas Company Limited and Union Oil Company of Canada Limited	135,110.10
7,040 acres in townships 64 and 65, ranges 20 and 21, west of the 5th meridian — Mississippian — ten quarter sections.	The Calgary & Edmonton Corporation Limited	138,383.83
11,200 acres in townships 66 and 67, range 5, west of the 6th meridian — Gilwood sand of the Elk Point group — sixteen quarter sections.	Pan American Petroleum Corporation	344,120.00
		\$ 22,113,520.08
23,040 acres in township 33, ranges 12, 13 and 14, west of the 5th meridian and in township 34, ranges 13 and 14, west of the 5th meridian.	Texas Gulf Sulphur Company and Imperial Oil Enterprises Ltd.	\$ 45,111.00
22,840 acres in townships 50 and 51, ranges 24, 25, and 26, west of the 5th meridian.	The British American Oil Company Limited, Sun Oil Company, Socony Mobil Oil of Canada, Ltd. and Triad Oil Co. Ltd.	30,012.40
18,320 acres in townships 6, 7 and 8, ranges 3 and 4, west of the 5th meridian.	Imperial Oil Enterprises Ltd.	27,846.40
		\$ 102,969.80

CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act, 1962, Section 112)

Comprising	Offer Accepted From:	Cash Purchase Price
Section 13, sections 23 to 26 inclusive, section 34 and the west half of section 35, township 46, range 6, west of the 5th meridian.	Canadian Delhi Oil Ltd.	\$ 54,000.00
Section 12, township 46, range 6, west of the 5th meridian.	Lobitos Oilfields Canada Ltd.	17,000.00
		\$ 71,000.00

CROWN RESERVE PETROLEUM LEASES PURCHASED

(Pursuant to The Mines and Minerals Act, 1962, Section 155)

Comprising	Offer Accepted From:	Cash Purchase Price
2,560 acres in township 61, ranges 11 and 12, west of the 5th meridian.	Socony Mobil Oil of Canada, Ltd.	\$ 8,500.00
		\$ 8,500.00

CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act, 1962,

Section 148, Subsection (2) Clause (b) ..

Comprising	Offer Accepted From:	Cash Purchase Price
The north half of section 32, township 56, range 8, west of the 5th meridian.	Tenneco Corporation	\$ 10,920.00
The east half of section 28, township 56, range 8, west of the 5th meridian.	Tenneco Corporation	6,560.00
The north half of section 15, township 56, range 8, west of the 5th meridian.	Tenneco Corporation	5,480.00
The south half and north west quarter of section 35, township 65, range 15, west of the 4th meridian.	Hylo Gas Producers Ltd.	480.00
		<hr/> \$ 23,440.00

CROWN RESERVE NATURAL GAS LEASES PURCHASED

(Pursuant to The Mines and Minerals Act, 1962,

Section 148, Subsection (2) Clause (c))

Comprising	Offer Accepted From:	Cash Purchase Price
1,342 acres in the north half of section 14, section 24, the north east quarter of section 26 and the south west quarter of section 36, township 32, range 2, west of the 5th meridian and that portion of the north west quarter of section 23, township 32, range 2, west of the 5th meridian.	Olds Holding Ltd.	\$ 27,475.00
The north east quarter and legal subdivision 7 of section 14, township 26, range 1, west of the 5th meridian.	Banff Oil Ltd.	3,524.00
Legal subdivisions 7 to 10 inclusive of section 24, township 26, range 1, west of the 5th meridian.	Jefferson Lake Petrochemicals of Canada Ltd.	5,963.00
		<hr/> \$ 36,962.00

CROWN RESERVE FRACTIONAL AREA LEASES PURCHASED

Comprising	Offer Accepted From:	Cash Purchase Price
9 acres in section 15, township 39, range 3, west of the 5th meridian.	Zenmac Metal Mines Limited (No Personal Liability)	\$ 2,292.00
80 acres in section 6, township 48, range 3, west of the 5th meridian.	Carlton Management Service Ltd.	1,524.00
320 acres in section 25, township 61, range 12, west of the 5th meridian.	Socony Mobil Oil of Canada, Ltd.	4,800.00
3.57 acres in section 27, township 39, range 3, west of the 5th meridian.	Sun Oil Company	441.00
160 acres in section 14, township 43, range 8, west of the 5th meridian.	Whitehall Canadian Oils Ltd.	4,500.00
121.7 acres in section 27, township 34, range 4, west of the 5th meridian.	Zapata Canadian Petroleum Corporation	6,900.00
2.06 acres in section 35, township 28, range 1, west of the 5th meridian.	The British American Oil Company Limited	464.00
18.27 acres in section 26, township 53, range 12, west of the 5th meridian.	Socony Mobil Oil of Canada, Ltd.	551.00
160 acres in section 23, township 43, range 8, west of the 5th meridian.	Whitehall Canadian Oils Ltd., Edwin Foster Blair and Ashland Oil & Refining Company	4,500.00
160 acres in section 10, township 33, range 3, west of the 5th meridian.	J. H. Wilson & Associates Ltd.	2,000.00
48 acres in section 23, township 34, range 4, west of the 5th meridian.	Zapata Canadian Petroleum Corporation	2,721.00
160 acres in section 12, township 33, range 3, west of the 5th meridian.	Montclair Oil Ltd.	3,000.00
160 acres in section 22, township 43, range 8, west of the 5th meridian.	Whitehall Canadian Oils Ltd., Ashland Oil & Refining Company and Edwin Foster Blair	4,500.00
		<hr/> \$ 38,193.00

Reservations—During the fiscal year 294 reservations were issued covering an area of 14,801,005 acres and at the close of the year 687 reservations were active containing an area of 35,443,628 acres.

The revenue from reservation fees amounted to \$75,000.00; for extending reservations amounted to \$2,944,358.97 and the revenue from bonuses accepted by the Director of Minerals at sales of petroleum and natural gas reservations by tender amounted to \$3,151,661.99.

Credit of not in excess of fifty per cent of the approved expenditures incurred in geophysical examination including drilling on petroleum and natural gas reservations may apply to the rental for one year of any lease or leases acquired out of the reservations and during the fiscal year under review rentals of \$1,684,510.47 were satisfied from such expenditures.

Crown Reserve Drilling Reservations—During the fiscal year 93 drilling reservations were issued covering an area of 825,616 acres and at the close of the year 123 were active containing an area of 1,100,816 acres.

The revenue from drilling reservation fees amounted to \$23,250.00, from rentals \$535,574.50 and the revenue from accepted offers at sales of Crown reserve drilling reservations amounted to \$22,113,520.08.

Credit may be granted for expenditures incurred in drilling a well on a drilling reservation and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the reservation of \$119,921.00 were satisfied by credit.

Natural Gas Licences—During the fiscal year fifteen natural gas licences covering an area of 211,792 acres were issued and at the close of the year eight licences were active containing an area of 144,438 acres. The revenue from fees was \$4,250.00 and from rentals was \$19,320.75. Credit may be granted for expenditures incurred in drilling a well on a natural gas licence and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the licences of \$8,672.00 were satisfied by credit.

Crown Reserve Natural Gas Licences—During the fiscal year three Crown reserve natural gas licences covering an area of 64,200 acres were issued. At the close of the year six licences were active, containing an area of 128,840 acres. The revenue from fees was \$750.00, from rentals \$15,880.00 and the revenue from accepted offers at sales of Crown reserve natural gas licences amounted to \$102,969.80. Credit may be granted for expenditures incurred in drilling a well on a Crown reserve natural gas licence and applied in satisfaction of the first year's rental. During the fiscal year rentals on leases acquired out of the licences of \$3,392.00 were satisfied by credit.

Natural Gas Leases—During the fiscal year 65 natural gas leases were issued covering 133,154 acres, and at the close of the

fiscal year a total of 915 leases were in existence comprising an area of 3,882,090 acres. Thirty of the leases were granted out of natural gas licences or Crown reserve natural gas licences and permit the recovery of natural gas from one or more zones specified in the lease. Twenty-two leases were issued comprising the balance of the spacing units to permit natural gas wells that were capable of commercial production to be operated at full production allowables, seven leases were issued within the unitized areas, four were issued as they were considered essential in the operation of natural gas utilities and two were issued for the recovery of gas for domestic purposes.

The annual rental of a natural gas lease is thirty-three and one-third cents an acre. While an adequate market or a market in which the lessee may participate is not available, the annual rental is reduced to ten cents an acre. The revenue received from fees was \$660.00 and from lease rentals \$822,500.41.

COAL

In the fiscal year, 47 leases were issued containing 55,650 acres, being made up of new and renewal and second renewal leases. There are now 419 active leases comprising 181,192 acres. There were four road allowance coal mining leases issued and there are now 96 active. The revenue received from fees was \$270.00 and from lease rentals \$88,984.08.

Crown royalties collected during the fiscal year were \$122,487.80 and the following tonnage of coal, subject to royalty was mined.

	Tons
Coal Leases	1,301,857
Coal Lands and Mineral Sales	113,283
TOTAL	1,415,140

QUARRYING

During the fiscal year seventeen quarrying leases comprising a total of 2,813 acres were issued, one for shale, two for volcanic ash, two for sandstone, six for limestone, one for rock phosphate, one for sandstone and shale, two for bentonite and two for limestone and dolomite.

Extraction of 668,465 tons of limestone and shale, 7,920 cubic yards of clay, 28,500 tons of bentonite, 577 tons of sandstone and twenty tons of building stone and 213 tons of dolomitic siltstone from Crown leases was reported and at the close of the fiscal year 104 quarrying leases containing an area of 19,197 acres were active.

BITUMINOUS SANDS

Four bituminous sands prospecting permits were issued during the year. There were seven permits active at the close of the year.

OIL SANDS

At the close of the year nineteen leases containing an area of 685,842 acres and three prospecting permits were active.

QUARTZ

During the fiscal year 218 claims were recorded and 124 continued for a further year.

PLACER

During the fiscal year one claim was renewed for another year. There were 189 ounces of gold and 16 ounces of silver recovered at two gravel plants.

SODIUM CHLORIDE (Common Salt)

During the fiscal year the plant near Lindbergh operated and reported extraction of 46,357 tons, a decrease of 2,016 tons from the previous year.

SULPHUR

The total production of sulphur in Alberta in 1963 was 1,227,667 tons, an increase of 255,316 tons over that reported the previous year.

IRON

During the fiscal year one iron lease comprising 12,021 acres was issued and at the close of the year, five leases were active containing an area of 26,399 acres. Four iron prospecting permits were issued comprising 148,664 acres.

ROADWAY SALES

During the fiscal year four notifications were issued pursuant to section 24 of The Mines and Minerals Act, 1962. Section 24 provides a means whereby minerals in roadways may be returned to the adjacent owner.

WELL LICENCES

During the fiscal year there were 1,806 licences issued for wells to be drilled for the purpose of obtaining oil or gas, 68 licences were issued for the purpose of drilling test holes, eight licences were issued for wells to be drilled for the purpose of injecting gas, air, water or other substance to an underground formation and 42 licences were issued for wells to be drilled for the purpose of obtaining water for injection and for domestic water wells at depths in excess of 500 feet.

DRILLING STATISTICS

The drilling and production of petroleum and natural gas wells in the Province are administered by the Oil and Gas Conservation Board, 603 - 6th Avenue South West, Calgary, Alberta,

and particulars as to the drilling activity, production and statistical data are included in weekly, monthly and annual reports issued by the Board.

GEOPHYSICAL AND GEOLOGICAL EXPLORATION

During the fiscal year 117 licences and 8 permits were issued and 57 permits were renewed.

UNIT OPERATION OF MINERALS

During the fiscal year 22 agreements pursuant to Part VIII of The Mines and Minerals Act, 1962 were entered into for unit operation of petroleum and natural gas properties. These agreements were:

Kaybob Notikewin Unit No. 1 in townships 63, 64 and 65, ranges 17, 18 and 19, west of the 5th meridian.

Dorothy Viking Gas Unit No. 1 in township 29, range 14, west of the 4th meridian.

Minnehik-Buck Lake Unit No. 1 in townships 45, 46, and 47, range 6, west of the 5th meridian.

Carson Creek Beaverhill Lake Unit No. 1 in townships 60, 61 and 62, ranges 11, 12 and 13, west of the 5th meridian.

Garrington Cardium Unit No. 1 in townships 36 and 37, ranges 5 and 6, west of the 5th meridian.

Lookout Butte Rundle Unit No. 1 in townships 1 and 2, ranges 28 and 29, west of the 4th meridian.

Pine Creek Leduc Unit No. 1 in townships 56, 57 and 58, range 19, west of the 5th meridian.

Virginia Hills Unit No. 1 in townships 64 and 65, ranges 13 and 14, west of the 5th meridian.

Kaybob Beaverhill Lake Unit No. 1 in townships 63, 64 and 65, range 19, west of the 5th meridian.

Medicine Hat Unit No. 1 in townships 15 and 16, ranges 4 and 5, west of the 4th meridian.

Sundre Unit No. 1 in townships 33 and 34, range 5, west of the 5th meridian.

Lobstick Cardium Unit in townships 49 and 50, ranges 7 and 8, west of the 5th meridian.

Buck Creek Cardium Unit in townships 48 and 49, range 6, west of the 5th meridian.

East Crossfield Unit in townships 28 and 29, range 28, west of the 4th meridian and range 1, west of the 5th meridian.

West Acadia Viking Unit in townships 23 and 24, ranges 3 and 4, west of the 4th meridian.

South Three Hills Creek Unit in township 34, ranges 34 and 35, west of the 4th meridian.

Wimborne Leduc (D-3) Unit in townships 33, 34 and 35, ranges 25, 26 and 27, west of the 4th meridian.

Lodgepole North Unit in township 49, ranges 9 and 10, west of the 5th meridian.

West Provost Viking Gas Unit in townships 35, 36 and 37, ranges 7, 8 and 9, west of the 4th meridian.

South Elkton Unit No. 1 in townships 30 and 31, range 4, west of the 5th meridian.

Bon Accord Viking Unit in township 56, range 23, west of the 4th meridian.

North Cessford Viking — Basal Blairmore Unit No. 1 in township 26, ranges 11 and 12, west of the 4th meridian.

One Unit involving Crown lands was established pursuant to section 73 of The Oil and Gas Conservation Act. This section deals with the compulsory pooling of tracts within a spacing unit. This Unit pertains to gas in the Viking formation in the Fort Saskatchewan field.

Where a person is required by or has the approval of the Oil and Gas Conservation Board to proceed with a scheme to inject any substance into an underground formation, he is permitted by section 186 of The Mines and Minerals Act, 1962 to proceed with the scheme without obtaining an agreement.

There were 41 schemes in which Crown mineral rights were involved. Twenty-two schemes authorized the return of salt water produced with petroleum and natural gas to subsurface formations in the Redwater, Bonnie Glen, Leduc-Woodbend, Legal, Minnehik-Buck Lake, Taber, Morinville, Joarcam, Lloydminster, Olds, Horsefly Lake and Taber South East, Sturgeon Lake South, Acheson, Bantry, Worsley and Sylvan Lake fields. Thirteen schemes permitted the injection of water for pressure maintenance purposes. Six were into the Cardium formation of the Pembina Field, two into the Sundre Rundle A formation of the Sundre field, one into the Beaverhill Lake formation of the Kaybob field, one into the Blairmore formation of the Peavey field, one into the Beaverhill Lake formation of the Virginia Hills field, one into the Cardium formation of the Garrington field and one into the Beaverhill Lake A and B formations of the Carson Creek North field. Three schemes authorized pilot tests of water injection into pools in the Swan Hills, Lloydminster and Judy Creek fields. One scheme was an agreement under section 14 (b) of The Mines and Minerals Act, 1962 which authorized the storage of butanes in the Bonnie Glen field. One scheme permitted the injection of water and gas for partial pressure maintenance purposes in the Cardium formation of the Pembina field. One scheme permitted the injection of gas for partial pressure maintenance purposes in the Belly River I formation of the Pembina field.

STAFF

At the close of the fiscal year the Division staff numbered 61 all of whom discharged their duties in a highly satisfactory manner.

MINERAL TAX DIVISION

Report of the Superintendent

J. A. SAVAGE

Producing area tax revenue for the fiscal year ending March 31st, 1964 amounted to \$1,367,777.54 being an increase of \$157,-302.35 over the previous year's revenue of \$1,210,475.19. The tax rate for the 1963 assessment remained at eight mills.

Mineral tax based on acreage for the fiscal year was received in the amount of \$550,217.99 which was an increase of \$20,047.69 over the \$530,170.30 received in the preceding year. The rate of tax remained at three cents an acre.

Four new fields were added to the designated producing areas for the year 1963. They were Fort Saskatchewan, Parkland and Wood River which are natural gas fields and Wainwright which is a petroleum field. Fort Saskatchewan, Parkland and Wood River were assessed as unitized areas and the assessments were made in accordance with the tract factors listed in the Royalty Unitization Agreements. Four petroleum unitization agreements were operative in the Wainwright field and the assessments in this field were also made in accordance with the tract factors of each unit.

All designated producing areas are listed below showing the number of parcels assessed, minerals assessed and the assessed value.

Producing Area	Parcels Assessed	Principal Mineral	Assessed Value
Acheson	41	Petroleum and Natural Gas	\$ 5,393,312.01
Alexander	12	Natural Gas	451,449.24
Bentley	27	Petroleum	1,915,594.40
Bindloss	3	Natural Gas	28,060.87
Bonnie Glen	22	Petroleum and Natural Gas	12,618,966.07
Calgary	275	Petroleum and Natural Gas	3,570,453.27
Campbell	14	Petroleum and Natural Gas	112,150.49
Carstairs-Elkton	122	Petroleum and Natural Gas	6,205,430.21
Cessford	18	Petroleum and Natural Gas	368,378.64
Chauvin	4	Petroleum	84,354.28
Clive-North	16	Petroleum and Natural Gas	175,060.04
Fort Saskatchewan	115	Natural Gas	600,719.62
Harmattan-Elkton	95	Petroleum and Natural Gas	8,807,637.99
Homeglen-Rimbey	50	Petroleum and Natural Gas	2,249,341.87
Innisfail	23	Petroleum and Natural Gas	7,256,421.03
Joarcam	69	Petroleum	5,337,457.49
Joffre	40	Petroleum	5,124,420.06
Jumping Pound	83	Natural Gas	1,080,296.84
Leduc	289	Petroleum and Natural Gas	21,618,835.37
Medicine Hat-Redcliff	113	Natural Gas	318,360.27
Medicine Hat-Roseglen	10	Natural Gas	32,866.30

Producing Areas	Parcels Assessed	Principal Mineral	Assessed Value
Namao	9	Petroleum and Natural Gas	272,556.71
Nevis	98	Natural Gas	1,011,704.32
Okotoks	67	Natural Gas	834,324.83
Oyen	1	Natural Gas	7,926.48
Parkland	4	Natural Gas	\$ 18,288.04
Pincher Creek	29	Natural Gas	2,806,481.24
Provost	139	Natural Gas	404,957.99
Redwater	17	Petroleum and Natural Gas	9,262,796.81
Sarcee	1	Natural Gas	190,023.13
Stettler	12	Petroleum and Natural Gas	2,054,902.55
Three Hills Creek	45	Natural Gas	85,141.25
Turner Valley	61	Petroleum and Natural Gas	3,558,285.45
Viking-Kinsella	448	Natural Gas	937,344.71
Wainwright	34	Petroleum	499,386.38
Westerose	5	Petroleum	5,002,840.70
Westerose-South	17	Natural Gas	2,971,659.83
Wizard Lake	7	Petroleum and Natural Gas	9,996,153.12
Wood River	19	Natural Gas	35,428.92

In addition to the designated producing areas, there were 903 parcels assessed. These had a total assessed value of \$47,-255,921.85, with the principal minerals assessed being petroleum, natural gas, coal and salt.

Under the heading of parcels assessed are the number of items appearing on the assessment roll with each parcel relating to the area contained in a certificate of title. In determining the assessed value of a parcel, each spacing unit on which a well has been brought into production is calculated separately; consequently, several calculations may be made in arriving at the assessment for petroleum in a parcel containing minerals in a section of land.

The revenue derived from the taxation of minerals from the enactment of the statute in 1941 until March 31st 1949 collected by the Department of Lands and Mines was \$1,921,180.47 and revenue collected by the Department of Mines and Minerals from April 1st, 1949 is shown in the following tabulation:

Year	Mill Rate	Producing	Per Acre	Acreage Tax	Fees	Total
1949-50	8	\$ 452,838.16	1½c	\$297,883.10	\$ 286.50	\$ 751,007.76
1950-51	8	526,029.61	1½c	307,062.62	511.00	833,603.23
1951-52	8	444,293.91	1½c	323,185.71	2,320.10	769,799.72
1952-53	8	572,671.45	1½c	310,285.08	3,204.00	886,160.53
1953-54	8	717,352.55	1½c	283,853.18	1,055.50	1,002,261.23
1954-55	8	1,031,913.72	1½c	277,842.74	1,467.00	1,311,223.46
1955-56	8	1,031,802.40	1½c	264,496.50	914.50	1,297,213.40
1956-57	8	1,070,380.73	1½c	272,883.90	1,101.50	1,344,366.13
1957-58	8	1,232,795.31	1½c	282,057.60	1,056.50	1,515,909.41
1958-59	8	1,115,478.85	1½c	306,179.40	472.00	1,422,130.25
1959-60	8	909,799.94	1½c	337,452.83	545.50	1,247,798.27
1960-61	8	957,673.20	1½c	303,051.45	339.00	1,261,063.65
1961-62	8	991,779.50	*3c	277,992.80	545.50	1,270,317.80
1962-63	8	1,210,475.19	3c	530,170.30	446.50	1,741,091.99
1963-64	8	1,367,777.54	3c	550,217.99	203.00	1,918,198.53

*Change in rate effective January 1st, 1962.

There were 406 mineral tax certificates issued during the fiscal year with revenue derived therefrom being \$203.00. A

tax certificate shows the amount of current taxes and arrears payable with respect to the mineral or minerals contained in a certificate of title and anyone may obtain a certificate for a fee of fifty cents.

Pursuant to The Mineral Titles Redemption Act, after the mineral titles were acquired by the Crown, there were instances where the minerals were granted under lease, licence, reservation, permit or other agreement, for exploration and development. The statute provides that where the minerals have been granted by the Crown, the return of the title to the former owner must be delayed until the minerals are no longer under lease, licence, reservation, permit or other agreement. In these instances, the former owner is entitled to receive the moneys collected by the Crown less a deduction of an amount equal to the tax that would have been charged had title been returned.

During the fiscal year the amount of moneys collected on existing agreements and returned to former owners was \$23,952.03. This brings the total to \$364,079.38 that has been returned to former owners since the Act came into force.

There were 11 agreements terminated during the year which resulted in titles being returned to former owners, making a total of 1,154 titles returned since the inception of the Act. As at March 31st, 1964, there were 56 titles, the redemption of which will be delayed because they are subject to lease, licence, reservation, permit or other agreement.

PIPE LINE DIVISION

Report of the Superintendent of the Pipe Line Division

A. L. BERRY

During the fiscal year ending March 31st, 1964, 2,180 miles of pipe line were licensed. More than one-half of this pipe line mileage was for gas lines and secondary lines for gas. Approximately one-third of the mileage was for oil lines and secondary lines for oil. Secondary lines for recovery schemes within certain oil fields accounted for continuing construction of many small diameter pipe lines.

In addition to the many gathering systems and small diameter pipe lines now being planned, it is anticipated that 1964 will see an extensive looping program of thirty-four inch diameter pipe line on The Alberta Gas Trunk Line Company Limited Plains System. It is further anticipated that 1964 will see a pipe line connection to the recently discovered oil field in the Lesser Slave Lake area.

The Pipe Line Division has representation on two Canadian Standards Association committees recently established to write a Safety Code for Gas Transmission and Distribution Systems and for Oil Transportation Piping design, construction and operation. It has been possible to contribute a great deal to the committee activities and it is presently planned to have the first draft of both Safety Codes prepared by March of next year.

The Pipe Line Division staff was increased by two, giving a total of nineteen employees.

The following table shows the mileage and licence statistics related to the various classifications of pipe lines for the year ending March 31, 1964.

SUMMARY OF PIPE LINE LICENCES

	Licensed at March 31, 1963		Licensed During The Year		Cancelled During The Year		Licensed at March 31, 1964	
	Number of Licences	Mileage of Pipe Line	Number of Licences	Mileage of Pipe Line	Number Cancelled	Mileage Cancelled	Number of Licences	Mileage of Pipe Line
Oil Lines	83	1740.50	18	389.92	4	86.45	97	2043.97
Gas Lines	366	4356.87	86	658.53	1	293.44	451	4721.96
Secondary Lines for Oil	1390	1756.07	131	224.94	7	16.15	1514	1964.86
Secondary Lines for Gas	589	2744.77	136	596.15	4	38.39	721	3302.53
Secondary Lines for Water and Other Substances	346	877.27	79	267.14			425	1144.41
Distribution Lines	597	469.42	158	43.68	6	3.28	749	509.82
Private Lines	335	44.98			2	.10	333	44.88
TOTAL	3706	11,989.88	608	2,180.36	24	437.81	4,290	13,732.43

TECHNICAL DIVISION

Report of the Superintendent of the Technical Division

J. M. NOVAK

The following report summarizes the operations of the Technical Division for the fiscal year ending March 31, 1964.

DRAUGHTING, LAND DESCRIPTIONS AND GENERAL

The series of maps covering approximately forty-eight townships for each area and on a scale of three-quarters of an inch to the mile were drawn covering the following areas:

BARONS—Townships 7 to 13, Ranges 20 to 25, West of the 4th Meridian.

BOW ISLAND—Townships 7 to 13, Ranges 8 to 13, West of the 4th Meridian.

BURNT RIVER SOUTH—Townships 61 to 68, Ranges 9 to 14, West of the 6th Meridian.

COUNTESS WEST—Townships 14 to 21, Ranges 20 to 25, West of the 4th Meridian.

HEART RIVER—Townships 77 to 84, Ranges 15 to 20, West of the 5th Meridian.

HEART RIVER NORTH—Townships 85 to 92, Ranges 15 to 20, West of the 5th Meridian.

MITSUE LAKE—Townships 69 to 76, Ranges 1 to 5, West of the 5th Meridian.

NORMANDVILLE NORTH—Townships 85 to 92, Ranges 21 to 26, West of the 5th Meridian.

OKOTOKS—Townships 14 to 21, Ranges 26 to 30, West of the 4th Meridian and Range 1, West of the 5th Meridian.

PAKOWKI LAKE—Townships 1 to 9, Ranges 1 to 7, West of the 4th Meridian.

RED EARTH WEST—Townships 85 to 92, Ranges 9 to 14, West of the 5th Meridian.

SIMONETTE WEST—Townships 61 to 68, Ranges 3 to 8, West of the 6th Meridian.

SWAN HILLS EAST—Townships 61 to 68, Ranges 1 to 5, West of the 5th Meridian.

UTIKUMA LAKE—Townships 77 to 84, Ranges 9 to 14, West of the 5th Meridian.

UTIKUMA LAKE EAST—Townships 77 to 84, Ranges 3 to 8, West of the 5th Meridian.

The following maps of the same series were redrawn:

DRUMHELLER—Townships 29 to 36, Ranges 17 to 22, West of the 4th Meridian.

PENDANT D'OREILLE—Townships 1 to 6, Ranges 8 to 13, West of the 4th Meridian.

RED EARTH—Townships 85 to 92, Ranges 3 to 8, West of the 5th Meridian.

STETTLER—Townships 37 to 44, Ranges 17 to 22, West of the 4th Meridian.

A new map was drawn to the scale of two inches to the mile on a transparent township plan covering the WATTS field.

All new maps drawn and previously drawn are subject to showing the locations of wells as well licences are granted. When the status of a well changes, it is adjusted on the maps. The limits of fields as established by the Oil and Gas Conservation Board are also included on the maps.

A map of the Province showing the location of oil and gas field maps published to March 31, 1964, is included in this report.

A total of 4,685 maps were distributed by the Department which is an increase of 959 from the 3,726 maps distributed in the previous year. A list of maps is available indicating the price of each map.

During the year, 1,846 applications for licences to drill wells were recommended for issue by the Oil and Gas Conservation Board, which is an increase of 165 over the 1,681 applications dealt with in the previous year. The Division, upon receipt of each application, searches the ownership of Crown minerals in the spacing unit allotted to the well.

Land descriptions were prepared for all mineral dispositions, as well as descriptions for recommendations to council.

The map of Alberta showing the areas covered by all petroleum and natural gas reservations to March 31, 1963, has been revised to indicate the area of reservations issued during the present year and is included in this report.

The photostat print requirements of the Department, as in past years, continued to be supplied by the Technical Division, Department of Lands and Forests. This Division supplies the ozalid print requirements of the Department.

The plan attached to each of the 218 applications for quartz claims was examined and, when satisfactory, plotted in the departmental township record.

RECORDS

In addition to the work completed as shown in the tables hereunder, the Records Branch of the Division supplied 2,702 township plots to the public indicating available Crown minerals and status of Crown minerals compared to 1,908 plots distributed in the previous year.

*DISPOSITIONS, CANCELLATIONS AND TRANSFERS RECORDED IN THE
TOWNSHIP REGISTERS

	1962-63	1963-64
Coal Leases	43	64
Road Allowance Coal Leases	41	8
Petroleum and Natural Gas Leases	6,908	6,279
Petroleum and Natural Gas Reservations	615	451
Crown Reserve Drilling Reservations	172	170
Petroleum and Natural Gas Permits	110	175
Natural Gas Licences	51	30
Natural Gas Leases	124	85
Crown Reserve Natural Gas Licences	30	10
Quarrying Leases	34	30
Transfers	1,451	1,460
Bituminous Sands Prospecting Permits	7	4
Bituminous Sands Leases	5	.....
Quartz Claims	428	348
Placer Claims	1	1
Iron Prospecting Permits	9	7
Iron Leases	2	1
Mineral Sales	3	5
Petroleum Leases	2	1
Tin Prospecting Permits	1	.....
Miscellaneous Leases	1	1
Notifications .....	.....	.....
Pipe Line Permits	622	582
Pipe Line Licences	731	632
TOTALS	11,391	10,344

*Includes issued, reinstated, divided, renewed and certificates of work.

NUMBER OF AGREEMENTS TRANSFERRED

	1962-63	1963-64
Petroleum and Natural Gas Lease	5,835	4,275
Petroleum and Natural Gas Reservation	113	124
Petroleum and Natural Gas Permit .....	.....	16
Coal Lease	17	10
Road Allowance Coal Lease	3	.....
Quarrying Lease	4	3
Natural Gas Lease	100	73
Natural Gas Licence	3	1
Crown Reserve Natural Gas Licence	3	1
Bituminous Sands Lease	10	4
Bituminous Sands Prospecting Permit .....	.....	1
Crown Reserve Drilling Reservation	28	26
Geophysical Licence	9	.....
Geophysical Permit	3	.....
Oil Sands Lease	2	.....
Iron Prospecting Permit	2	.....
Pipe Line Permit	8	5
Pipe Line Licence	123	47
Provisional Pipe Line Licence	4	17
TOTALS	6,267	4,603

NUMBER OF DOCUMENTS FILED

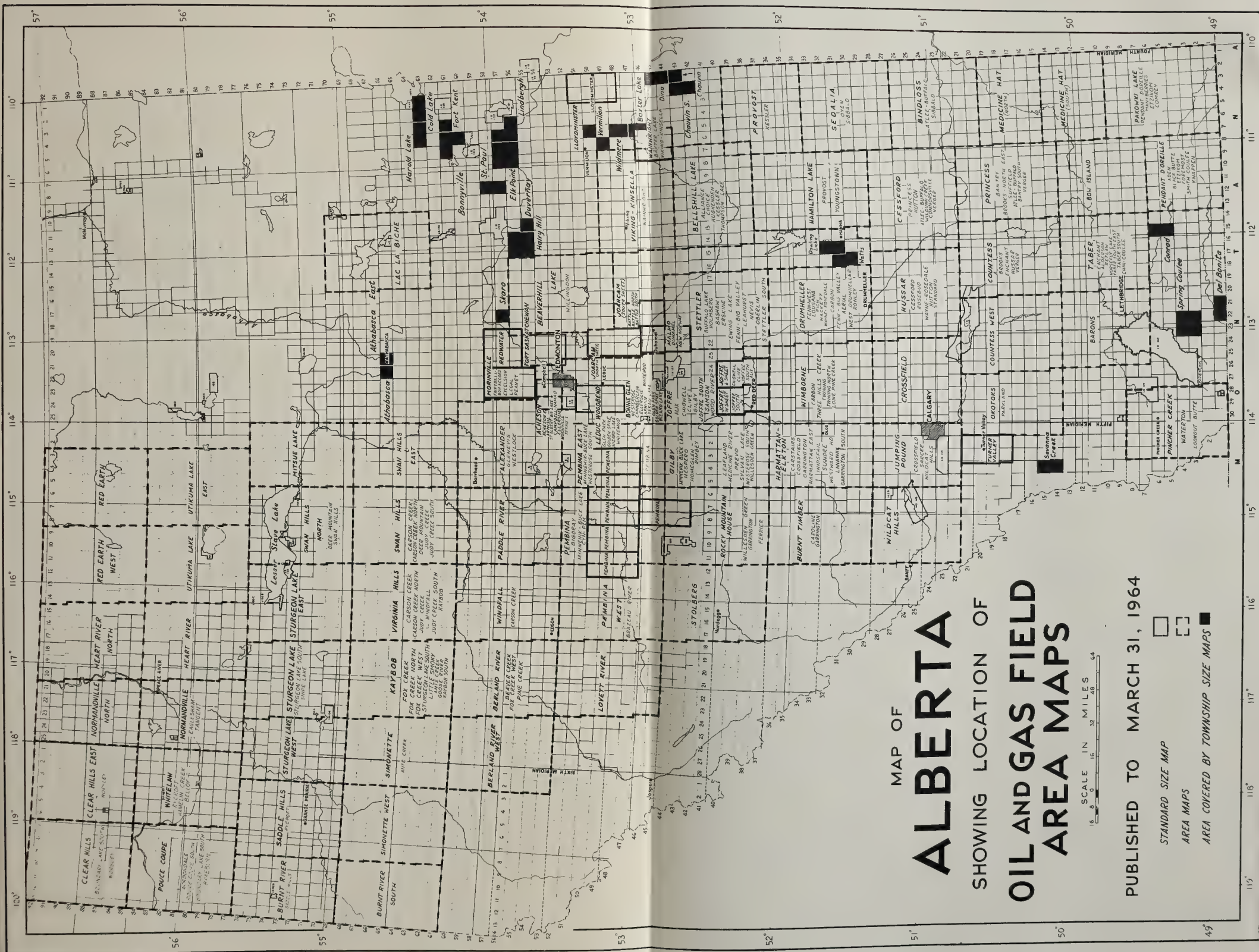
	1962-63	1963-64
Type of Document .....	.....	.....
Lis Pendens	1	1
Mechanic's Lien	10	2
Discharge of Mechanic's Lien	29	3
Bank Securities	165	261
Discharge of Bank Securities	62	129
Hypothecation of Pipe Lines	1	6
Discharge of Hypothecation .....	.....	1
TOTALS	268	403

NUMBER OF AGREEMENTS HYPOTHECATED

	1962-63	1963-64
Pipe Line Permit	2	51
Pipe Line Licence	23	138
TOTALS	25	189

One Notification, for the correction of a certificate of title was issued to return minerals underlying a Railway Right of Way. Five transfers, for the issue of certificates of title, were also issued during the fiscal year to return minerals underlying roadways to owners of adjacent minerals.

During the fifteen years of operation of the Department, one hundred and thirty-three notifications and thirty-five transfers have been issued.



MAP OF
ALBERTA
SHOWING LOCATION OF
**OIL AND GAS FIELD
AREA MAPS**

SCALE IN MILES
0 16 32 48 64

PUBLISHED TO MARCH 31, 1964

- STANDARD SIZE MAP
- AREA MAPS
- AREA COVERED BY TOWNSHIP SIZE MAPS

NORTHWEST TERRITORIES

BRITISH COLUMBIA

SASKATCHEWAN

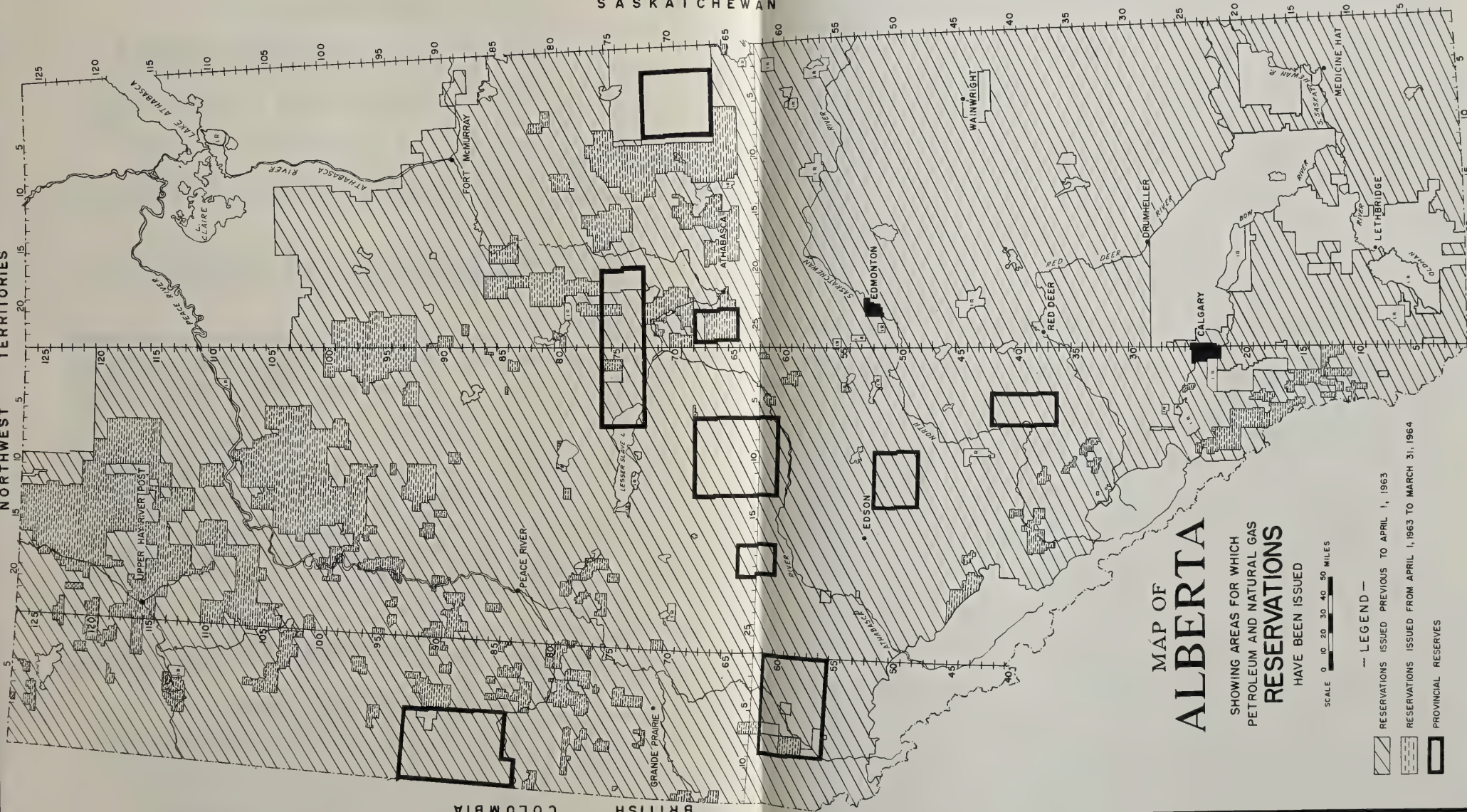
UNITED STATES

MAP OF ALBERTA

SHOWING AREAS FOR WHICH
PETROLEUM AND NATURAL GAS
RESERVATIONS
HAVE BEEN ISSUED

SCALE 0 10 20 30 40 50 MILES

- LEGEND —
- RESERVATIONS ISSUED PREVIOUS TO APRIL 1, 1963
 - RESERVATIONS ISSUED FROM APRIL 1, 1963 TO MARCH 31, 1964
 - PROVINCIAL RESERVES



ACCOUNTING DIVISION

*Report of the Administrative Accountant
and Personnel Officer*

W. E. SHILLABEER

A surplus of \$150,113,341.72 on Income Account was shown for the Fiscal Year ending March 31st, 1964.

Net Revenue on Income Account amounted to \$151,431,-747.16.

Gross Receipts from all sources amounted to \$159,829,460.26.

Expenditure on Income Account for the year amounted to \$1,318,405.44. Particulars of expenditure may be found in Statement "C".

As at March 31st, 1964 there were 37,959 Accounts Receivable as compared with 37,926 as at March 31st, 1963. The number of active accounts as at March 31st, 1964 is made up as follows:

	Number of Accounts
Petroleum and Natural Gas Leases, Rental	29,126
Petroleum and Natural Gas Leases, Royalty	1,975
Petroleum and Natural Gas Reservations	690
Petroleum and Natural Gas Drilling Reservations	123
Petroleum and Natural Gas Permits	157
Natural Gas Licences	8
Natural Gas Leases	925
Crown Reserve Natural Gas Licences	6
Coal Leases, Rental	504
Coal Leases, Royalty	84
Quarrying Royalty	104
Bituminous Sands Rental	86
Oil Sands Rental	22
Registration of Assignment Tax	181
Mining Leases (Miscellaneous)	42
Compensatory Royalty	77
Mineral Tax (Producing Area)	3,849
	<u>37,959</u>

There were 4,199 accounts cancelled or closed and 4,232 accounts opened.

INDEX TO STATEMENTS

- A—Statement of Receipts from all sources.
- B—Statement of Receipts—Income Account.
- C—Statement of Expenditure by Appropriation and Character.
- D—Statement of Net Receipts by Divisions.
- E—Statement of Receipts and Expenditure.
- F—Statement of Revenue Received by the Province by Fiscal Years for a Five Year Period Ending March 31st, 1964.

Statement "A"

STATEMENT OF RECEIPTS FROM ALL SOURCES

From April 1st, 1963 to March 31st, 1964

	Gross Receipts	Refunds	Net Receipts
Income Account (See Statement "B")	\$151,704,456.82	\$ 272,709.66	\$151,431,747.16
Transferred Collections	1,388.55	.....	1,388.55
Suspense (Unapplied receipts carried forward subject to refund)	8,123,614.89	7,642,083.04	481,531.85
	<u>\$159,829,460.26</u>	<u>\$7,914,792.70</u>	<u>\$151,914,667.56</u>

Statement "B"

STATEMENT OF RECEIPTS — INCOME ACCOUNT

From April 1st, 1963 to March 31st, 1964

COAL MINING

	Gross Receipts	Refunds	Net Receipts
Coal Fees, Rental, etc.	\$ 97,304.48	\$ 8,050.40	\$ 89,254.08
Coal Royalty	122,487.80	.....	122,487.80
Coal Sundry Revenue	2,127.05	.....	2,127.05

PETROLEUM AND NATURAL GAS

Petroleum and Natural Gas Fees, Rental, etc.	38,758,195.73	235,382.15	38,522,813.58
Petroleum and Natural Gas, Royalty	56,748,943.37	1,813.03	56,747,130.34
Crown Reserve Sales	52,897,253.01	3,114.00	52,894,139.01

MISCELLANEOUS:

Quarrying Fees, Rental and Royalty	79,058.21	15,828.40	63,229.81
Bituminous Sands Fees, Rental, etc.	644,906.83	.....	644,906.83
Oil Sands Fees and Rental	171,460.64	.....	171,460.64
Miscellaneous Mining	129,010.02	5,929.26	123,080.76
Well Licences	47,350.00	47,350.00

MINERAL TAX	1,920,056.95	1,858.42	1,918,198.53
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PIPE LINE SUNDRY REVENUE	11,859.25	75.00	11,784.25
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ADMINISTRATION SUNDRY REVENUE	74,443.48	659.00	73,784.48
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TOTAL INCOME ACCOUNT

(Carried to Statement "A")	\$151,704,456.82	\$272,709.66	\$151,431,747.16
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**EXPENDITURE CLASSIFIED BY APPROPRIATION AND CHARACTER
FOR THE FISCAL YEAR ENDED MARCH 31, 1964**

INCOME ACCOUNT

SERVICE	2001 Minister's Office	2002 General Administration	2004 Pipe Lines Division	2005 Geological Division	2006 Mines Division	2007 Minerals Division	2008 Mineral Tax Division	2009 Oil and Gas Property Tax	2010 Technical Division	2011 Abandonment of Mining Properties	2012 Redemption of Mineral Titles	2014 Right of Entry Arbitration Board	2015 Supervisory and Safety Training Program	2016 Surface Reclamation	TOTAL
Advertising						10,253.52									10,253.52
Automobiles, Trucks & Mobile Equipment Purchase	3,832.99		1,790.47									1,790.47		1,838.16	9,252.09
Automobiles, Trucks & Mobile Equipment Expenses		654.91													654.91
Compensation										520.00				2,411.00	2,931.00
Contracts and Agreements				3,896.00						8,312.58					12,208.58
Fees and Commissions		135.75	161.50		140.50	100.00									537.75
Freight, Express & Cartage		563.76		135.00											698.76
Furnishings, Equipment & Tools		361.44	986.27			810.23	1,730.44		1,027.32			101.90		463.43	5,481.03
Grants, Prizes				1,500.00								3,600.00			5,100.00
Materials & Supplies, Administrative	173.10	14,607.85	1,474.70		792.93	2,947.47	1,288.45		12,769.25			1,451.76		812.22	36,317.23
Miscellaneous Expenses		303.75	188.42	3,846.68	3.50	1.20			16.59	69.24					4,429.38
Postage	71.00	1,449.00	408.00		495.24	7,404.40	1,780.00		252.00			312.71		224.48	12,396.83
Rentals														15.00	15.00
Refunds and Remissions											23,952.03				23,952.03
Repair and Maintenance of Office Machines	63.69	1,197.16	208.62		191.53	1,165.50	465.40		737.10			131.86		37.60	4,198.46
Salaries	10,500.01	136,231.63	93,342.96		64,447.60	247,472.79	86,963.75		207,156.78			67,174.58		67,197.58	980,492.68
Taxes								117,024.41							117,024.41
Telephones and Telegraphs	948.81	1,341.79	3,250.40		192.00	3,535.25	33.65		1,600.60			594.65		1,768.35	13,265.50
Travelling Expenses of Other Than Public Servants		190.10													190.10
Travelling Expenses of Public Servants	853.71	1,616.77	23,632.49		138.35									5,463.15	5,791.60
TOTAL; Income Account	16,443.31	158,653.41	125,443.83	9,377.68	72,995.45	275,571.72	94,252.25	117,024.41	224,094.09	8,901.82	23,952.03	78,233.68	3,600.00	110,061.76	1,318,405.44

Statement "D"

STATEMENT OF NET RECEIPTS BY DIVISIONS

For the Fiscal Year Ending March 31st, 1964

INCOME ACCOUNT:

Minerals Division	\$149,425,852.85
Mineral Tax Division	1,918,198.53
Mines Division	2,127.05
Pipe Line Division	11,784.25
Miscellaneous (Administration Sundry Revenue, etc.)	73,784.48
TRANSFERRED TO OTHER DEPARTMENTS	1,388.55
SUSPENSE (Unapplied receipts carried forward, subject to refund)	481,531.85
	<u>\$151,914,667.56</u>

Statement "E"

STATEMENT OF RECEIPTS AND EXPENDITURE

For the Fiscal Year Ending March 31st, 1964

Gross Receipts	Refunds	Net Receipts	Net Revenue on Income Account	Total Expenditure from Appro- priations	Surplus on Income Account
\$159,829,460.26	\$7,914,792.70	\$151,914,667.56	\$151,431,747.16	\$1,318,405.44	\$150,113,341.72

STATEMENT OF REVENUE RECEIVED BY THE PROVINCE
BY FISCAL YEARS

FOR A FIVE YEAR PERIOD ENDING MARCH 31st, 1964

Statement "F"

	1959-60	1960-61	1961-62	1962-63	1963-64	Total
COAL						
Fees and Rental	\$ 59,705.73	\$ 48,840.26	\$ 67,998.95	\$ 45,776.57	\$ 89,254.08	\$ 311,575.59
Royalty	90,303.44	72,821.12	80,455.14	112,598.42	122,487.80	478,695.92
Sundry Revenue	2,451.75	2,534.85	2,457.50	2,371.85	2,127.05	11,943.00
PETROLEUM AND NATURAL GAS						
Fees and Rental	32,681,663.73	30,898,834.06	32,403,687.57	38,684,476.58	38,522,813.58	173,191,455.52
Royalty	27,827,144.03	27,741,095.63	39,198,163.60	51,036,312.39	56,747,150.34	202,051,786.39
Crown Reserve Sales	81,322,977.17	44,127,513.03	44,290,641.86	30,496,553.58	52,894,139.01	253,133,824.75
SALT						
Fees and Rental	1,005.60	1,005.60	1,005.60	1,005.60	1,005.60	5,028.00
Royalty	10,677.35	11,725.31	12,367.82	13,753.64	12,742.65	61,266.77
QUARRYING						
Fees and Rental	165.00	140.00	155.00	140.34	101.00	701.34
Royalty	59,273.39	57,095.90	56,409.75	68,071.07	63,128.81	303,979.52
QUARTZ						
Fees and Royalty	680.00	810.00	880.00	4,335.00	4,155.00	10,860.00
PLACER						
Fees and Royalty	490.00	250.00	10.00	450.00	.....	1,200.00
BITUMINOUS SANDS						
Fees, Rental and Royalty	548,903.05	672,044.79	767,431.39	654,684.76	644,906.83	3,287,970.82
OIL SANDS						
Fees and Rental .....	.....	.....	178,840.84	184,531.04	171,460.64	534,832.52
MINING MISCELLANEOUS						
Fees, Rental and Royalty	135,714.23	128,541.68	138,376.48	152,794.84	152,527.51	707,954.74
MINERAL TAXATION ACT						
Non-Producing Area Tax	337,452.83	303,051.45	277,992.80	530,170.30	550,217.99	1,998,885.37
Producing Area Tax	909,799.94	957,673.20	991,779.50	1,210,475.19	1,367,777.54	5,437,505.37
Certificate Fees	545.60	339.00	545.50	446.50	203.00	2,079.50
PIPE LINE ACT SUNDRY REVENUE	6,297.60	10,110.50	10,219.00	11,028.50	11,784.25	49,439.75
ADMINISTRATION SUNDRY REVENUE	51,367.90	55,667.62	78,745.13	85,640.96	73,784.48	345,206.09
TOTALS	\$143,546,618.74	\$105,090,034.00	\$118,558,173.23	\$123,299,617.83	\$151,431,747.16	\$641,926,190.96

PERSONNEL

The number of employees in the Department showed an increase of 14 from 211 on April 1st, 1963 to 225 on March 31st, 1964.

On June 1st, 1963 a new Act respecting the maintenance and reclamation of, and recovery of rental for, the surface of land used in connection with mines, quarries, oil and gas operations and pipe lines was enacted and is known as the Surface Reclamation Act. It was necessary to establish a staff to deal with the settlement of claims and the issuing of reclamation certificates. This staff included 10 Council Members, 1 Steno, 1 Council Secretary and 1 Council Records Officer.

A Pipe Line Engineer and 1 Clerk Typist were added to the Pipe Line Division and in the Minerals Division 2 Clerk Stenos, 1 Correspondence Clerk and 1 Clerk Typist were added. In the Technical Division, because of the diversity of the Government offices throughout the City, it was necessary to create the position of Chauffeur to take care of the messenger work of the Department. One additional staff member was added to the Accounting Division to assist the Stockkeeper.

Four positions in the Geophysical Division were abolished and three of the incumbents were transferred to the Surface Reclamation Council. The position of Inspector of Mining Locations, under the Minerals Division, was also abolished and the incumbent transferred to the Surface Reclamation Council.

During the same period 31 employees left the Department. Of these, 3 left the city, 7 resigned to accept employment outside the Government service, 4 decided to further their education by returning to University, 6 were transferred to other Departments and the remainder left for various other reasons.

